

STUDENT ATLAS

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Amazing Earth

Earth is unique among the nine planets that circle the Sun. It is the only one that can support life, because it has enough oxygen in its atmosphere and plentiful water. In fact, seen from space, the Earth looks almost entirely blue. This is because about 70% of its surface is under water, submerged beneath four huge oceans: the Pacific, Atlantic, Indian and Arctic oceans. Land makes up about 30% of the Earth's surface. It is divided into seven landmasses of varying shapes and sizes called continents. These are, from largest to smallest: Asia, Africa, North America, South America, Antarctica, Europe, and Australia.

WATERY WORLD



The Earth's oceans and seas cover more than 142 million sq miles – that is twice the surface of Mars and nine times the surface of the moon.

Beneath the ocean waves lies the biggest and most unexplored landscape on Earth. Here are coral reefs, enormous, open plains, deep canyons, and the longest mountain range on Earth – the Mid-Atlantic Ridge – which stretches almost from pole to pole.



THE SHAPE OF THE EARTH

Photographs taken from space by astronauts in the 1960s, and more recently from orbiting satellites, have proven beyond doubt what humans had worked out long ago – that the Earth is shaped like a ball. But it is not perfectly round. The force of the Earth's rotation makes the world bulge very slightly at the Equator and go a little flat at the North and South Poles. So the Earth is actually a flattened sphere, or a "geoid."

WET EARTH



Tropical rain forests grow in areas close to the Equator, where it is wet and warm all year round. Although they cover just 7% of the Earth's land, these thick, damp forests form the richest ecosystems on the planet. More plant and animal species are found here than anywhere else on Earth.



The Pacific Ocean contains the deepest places on the Earth's surface – the ocean trenches. The very deepest is Challenger Deep in the Mariana Trench which plunges 36,201 ft into the Earth's crust. If Mount Everest, the highest point on land at 29,035 ft, was dropped into the trench, its peak wouldn't even reach the surface of the Pacific.

WATER

Over 97% of the Earth's water is salt water. The total amount of salt in the world's oceans and seas would cover all of Europe to a depth of three miles. Less than 3% of the Earth's water is fresh. Of this, 2.24% is frozen in ice sheets and about 0.6% is stored underground as groundwater The remainder is in lakes and rivers

COASTS

The total length of the Earth's coastlines is more than 300,000 miles – that is the equivalent of 12 times around the globe. A high percentage of the world's people live in coastal zones: of the ten most populated cities on Earth, seven are situated on estuaries or the coast.

BIODIVERSITY

Today, almost 6,800,000,000 humans, approximately 1.2 million animal species and 300,000 known plant species depend on the air, water and land of planet Earth.

VANISHING FORESTS

10,000 years ago, thick forests covered about half of the Earth's land surface. Today, 33% of those forests no longer exist, and more than half of what remains has been dramatically altered. During the 20th century, more than 50% of the Earth's rainforests were felled.



Deserts are among the most inhospitable places on the planet. Some deserts are scorching hot, others are freezing cold, but they have one thing in common – they are all dry. Very few plant and animal species can survive in these harsh conditions. The world's coldest and driest continent, Antarctica (*left*), is a cold desert.

DIFFERENT WORLD VIEWS

Because the Earth is round, we can only see half of it at any one time. This half is called a hemisphere, which means "half a sphere." There are always two hemispheres – the half that you see and the other half that you don't see. Two hemispheres placed together will always make a complete sphere.

RORTH AFRICA SOUTH AMERICA

NORTH AND SOUTH

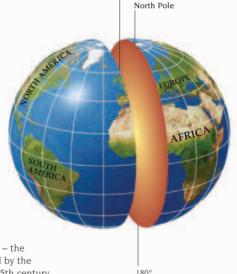
The Equator is an imaginary line drawn around the middle of the Earth, where its circumference is greatest. If we cut along the Equator, the Earth separates into two hemispheres: the Northern and Southern Hemispheres. Most of the Earth's land is the Northern Hemisphere. Europe and North America are the only continents that lie entirely in the northern hemisphere. Australia and Antarctica are the only continents that lie entirely in the southern hemisphere.

The Southern Hemisphere contains three of the Earth's four great oceans: the Pacific, Indian, and Atlantic Oceans.

EAST AND WEST

The Earth can also be divided along two other imaginary lines – the Prime Meridian (0°) and 180° – which run opposite each other between the North and South Poles. This creates eastern and western hemispheres. The continents in the eastern hemisphere are traditionally called the Old World, while those in the western hemisphere – the

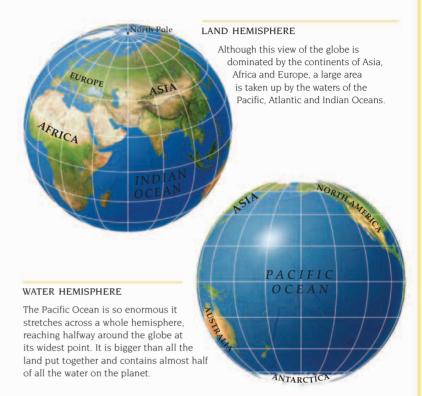
Americas – were named the New World by the Europeans who explored them in the 15th century.



Prime Meridian (0°

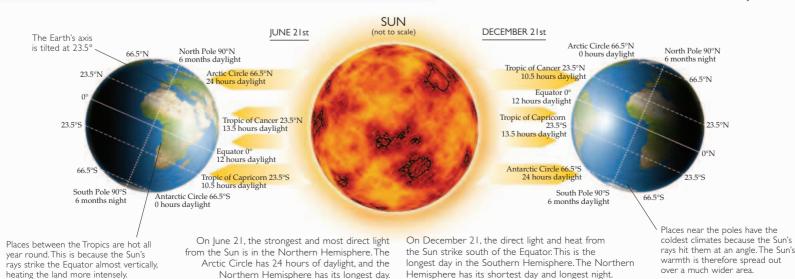
PLANET WATER, PLANET LAND

The Earth can also be divided into land and water hemispheres. The land hemisphere shows most of the land on the Earth's surface. The water hemisphere is dominated by the vast Pacific Ocean – from this view, the Earth appears to be almost entirely covered by water.



THE SEASONS

As the Earth orbits the Sun, it is also spinning around an imaginary line called its axis, which joins the North and South Poles. The Earth's axis is not quite at right angles to the Sun, but tilts over at an angle of 23.5°. As a result, each place gradually moves closer to the Sun and then farther away from it again. Summer in the Northern Hemisphere is when the north is closest to the Sun. In winter, the Northern Hemisphere tilts away from the Sun, receiving far less heat and light. In the Southern Hemisphere the seasons are reversed, with summer in December and winter in June.



Mapping the World



The main purpose of a map is to show, or locate, where things are. The only truly accurate map of the whole world is a globe – a round model of the Earth. But a globe is impractical to carry

around, so mapmakers (cartographers) produce flat paper maps instead. Changing the globe into a flat map is not simple. Imagine cutting a globe in half and trying to flatten the two hemispheres. They would be stretched in some places, and squashed in others. In fact, it is impossible to make a map of the round Earth on flat paper without some distortion of area, distance, or direction.

Models of the World

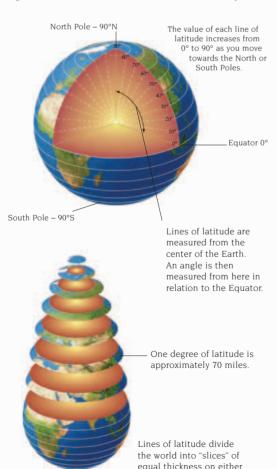


Satellite images can show the whole world as it appears from space. However, this image shows only one half of the world, and is distorted at the edges.

A globe (right) is the only way to illustrate the shape of the Earth accurately. A globe also shows the correct positions of the continents and oceans and how large they are in relation to one another.

LATITUDE

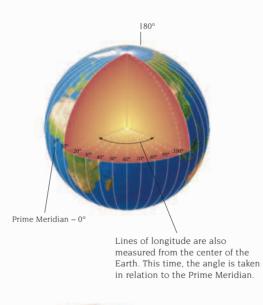
We can find out exactly how far north or south, east or west any place is on Earth by drawing two sets of imaginary lines around the world to make a grid. The horizontal lines on the globe below are called lines of latitude. They run from east to west. The most important is the Equator, which is given the value 0°. All other lines of latitude run parallel to the Equator. and are numbered in degrees either north or south of the Equator.

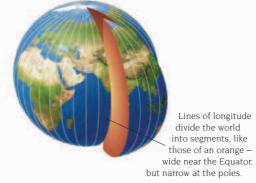


side of the Equator.

LONGITUDE

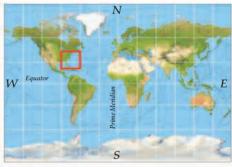
The vertical lines on the globe below run from north to south between the poles. They are called lines of longitude. The most important passes through Greenwich, England, and is numbered 0°. It is called the Prime Meridian. All other lines of longitude are numbered in degrees either east or west of the Prime Meridian. The line directly opposite the Prime Meridian is numbered 180°.





WHERE ON EARTH?

When lines of latitude and longitude are combined on a globe, or as here, on a flat map, they form a grid. Using this grid, we can locate any place on land, or at sea, by referring to the point where its line of latitude intersects with its line of longitude. Even when a place is not located exactly where the lines cross, you can still find its approximate position.

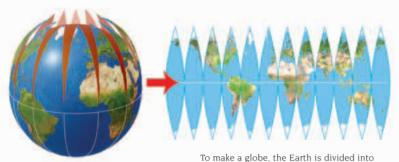




The map above is of the eastern US. It is too small to show all the lines of latitude and longitude, so they are given at intervals of 5°. Miami is located at about 26° north of the Equator and 80° west of the Prime Meridian. We write its location 26°N 80°W.

MAKING A FLAT MAP FROM A GLOBE

Cartographers use a technique called projection to show the Earth's curved surface on a flat map. Many different map projections have been designed. The distortion of one feature – either area, distance, or direction – can be minimized, while other features become more distorted. Cartographers must choose which of these things it is most important to show correctly for each map that they make. Three major families of projections can be used to solve these questions.

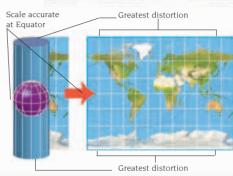


1 CYLINDRICAL PROJECTIONS

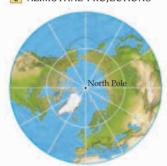
These projections are "cylindrical" because the surface of the globe is transferred onto a surrounding cylinder. This cylinder is then cut from top to bottom and "rolled out" to give a flat map. These maps are very useful for showing the whole world.



The cylinder touches the globe at the Equator. Here, the scale on the map will be exactly the same as it is on the globe. At the northern and southern edges of the cylinder, which are farthest away from the surface of the globe, the map is most distorted. The Mercator projection (above), created in the 16th century, is a good example of a cylindrical projection.



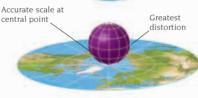




Azimuthal projections put the surface of the globe onto a flat circle. "Azimuthal" means that the direction or "azimuth" of any line coming from the center point of that circle is correct. Azimuthal maps are useful for viewing hemispheres, continents, and the polar regions. Mapping any area larger than a hemisphere gives great distortion at the outer edges of the map.

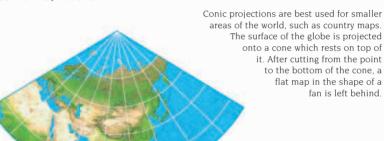


segments or 'gores' along lines of longitude.

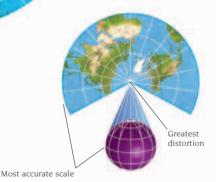


The circle only touches the globe's surface at one central point. The scale is only accurate at this point and becomes less and less accurate the farther away the circle is from the globe. This kind of projection is good for maps centering on a major city or on one of the poles.

3 CONIC PROJECTIONS



The conic projection touches the globe's surface at one latitude. This is where the scale of the map will be most accurate. The parts of the cone farthest from the globe will be the most distorted and are usually omitted from the map itself.



PROJECTIONS USED IN THIS ATLAS

The projections that are appropriate for showing maps at a world, continental, or country scale are quite different. The projections for this atlas have been carefully chosen. They are ones that show areas as familiar shapes that are distorted as little as possible.

World Maps



The Wagner VII projection is used for our world maps as it shows all the countries at their correct sizes relative to one another.

2 Continents



The Lambert Azimuthal Equal Area is used for continental maps. The shape distortion is relatively small and countries retain their correct sizes relative to one another.

3 Countries



The Lambert Conformal Conic shows countries with as little distortion as possible. The angles from any point on the map are the same as they would be on the surface of the globe.

HOW MAPS ARE MADE

New technologies have revolutionized mapmaking. Computers and information from satellites have replaced drawing boards and drafting pens, and the process of creating new maps is now far easier. But mapmaking is still a skilled and often time-consuming process. Information about the

world must be gathered, sorted, and checked. The cartographer must make decisions about the function of the map and what information to select in order to make it as clear as possible.

THE MAPPA MUNDI



Maps have been made for thousands of years. The 13thcentury Mappa Mundi, meaning "known world" shows the Mediterranean Sea and the Don and Nile rivers. Asia is at the top, with Europe on the left, and Africa to the right. The oceans are shown as a ring surrounding the land. The map reflects a number of biblical stories

HISTORICAL MAP MAKING



This detailed hand-drawn map of the southern coast of Spain was made in about 1750. The mountains are illustrated as small hills and the labels have been hand lettered

For centuries, maps were drawn by hand. Very early maps were no more than a pictorial representation of what the surface of the ground looked like. Where there were hills, pictures were drawn to represent them. Later maps were drawn using information gathered by survey teams. They would carefully mark out and calculate the height of the land, the positions of towns. and other geographical features. As knowledge and techniques improved, maps became more accurate.

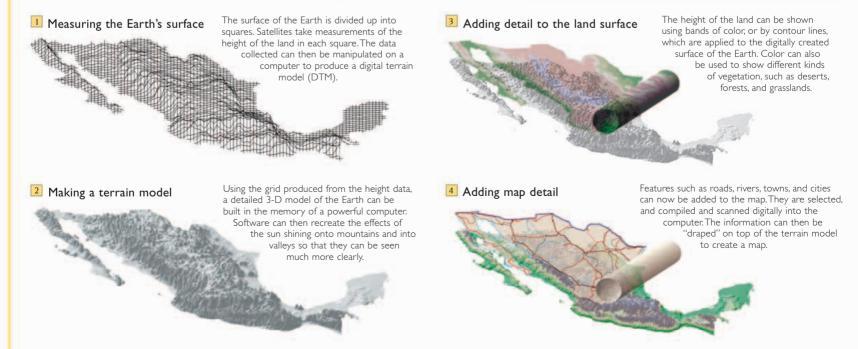
NEW TECHNIQUES



Computers make it easier to change map information and styles quickly. This map of the southern coast of Spain, made in 1997 has been made using digital terrain modeling (see below) and traditional cartography.

Today, cartographers have access to far more data about the Earth than in the past. Satellites collect and process information about its surface. Further elements may then be added in the traditional way. Computers are now widely used to combine these different sorts of map information. More recently, the use of Global Positioning Systems (GPS) linked to satellites, and the increased availability of Internet based mapping, has revolutionised the way that maps are created and used.

MODERN MAP MAKING

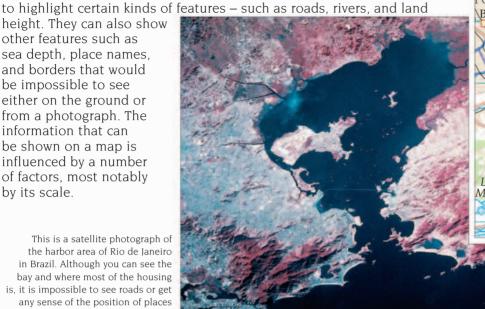


SHOWING INFORMATION ON A MAP

A map is a selective diagram of a place. It is the cartographer's job to decide what kind of information to show on a map. They can choose

height. They can also show other features such as sea depth, place names, and borders that would be impossible to see either on the ground or from a photograph. The information that can be shown on a map is influenced by a number of factors, most notably by its scale.

This is a satellite photograph of the harbor area of Rio de Janeiro in Brazil. Although you can see the bay and where most of the housing is, it is impossible to see roads or get any sense of the position of places relative to one another.



Campos NOVA Guia de ITABO Elisios Pacobaíba GUACU Belford Roxo Baiá de Guanabara Coelho da Rocha Duque de Caxias Ilha do Governador São João de Meriti São Mateus São Gonçalo Ilha do Fundão Niterói ITERÓI Rio de Janeiro Lagoa Piratininga Lagoa de Lagoa Itaipu de Itaipu Marapendi Lagoa This is a map of the same area as you can

see in the photograph. Much of the detail has been greatly simplified. Towns are named and marked; contours indicate the height of the land; and roads, railways and borders between districts have been added.

SCALE

To make a map of an area it needs to be greatly reduced in size. This is known as drawing to scale. The scale of the map shows us by how much the area has been reduced. The smaller the scale, the greater the area of land that can be shown on the map. There will be far less detail and the map will not be as accurate. The maps below show the different kinds of information that can be shown on maps of varying scales.

WAYS TO SHOW SCALE

When using a map to work out what areas or distances are in reality. we need to refer to the scale of that particular map. Map scales can be shown in several ways.

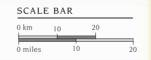
Representative fraction

One unit on the map would be equal to 1,000,000 units on the ground.

1:1,000,000

2 Linear scale

The line is marked off in units which represent the real distances of the map. given in both miles and kilometers



3 Statement of scale

It means that linch on the map represents I mile on the ground.

I inch represents I mile

LONDON 1:21,000,000



This small-scale map shows the position of London in relation to Europe. Very little detail can be seen at this scale - only the names of countries and the largest towns.

LONDON 1:5,500,000



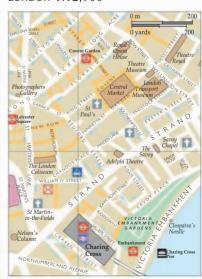
At a scale of 1 to 5,500,000 you can see the major road network in the southeast of the UK. Many towns are named and you can see the difference in size and status

LONDON 1:900.000



This map is at a much larger scale. You can see the major roads that lead out from London and the names of many suburbs, places of interest, and airports.

LONDON 1:12,500



This is a street map of central London. The streets are named, as are places of interest, train and subway stations. The scale is large enough to show plenty of detail.

READING MAPS



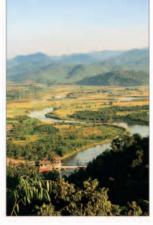
Maps use a unique visual language to convey a great deal of detailed information in a relatively simple form.

Different features are marked out using special symbols and styles of print. These symbols are explained in the key to the map and you should always read a map alongside its key or legend. This page explains how to look for different features on the map and how to unravel the different layers of information that you can find on it.

PHYSICAL FEATURES

All the regional and country maps in this atlas are based on a model of the Earth's surface. The computergenerated relief gives an accurate picture of the surface of the land. Colors are used to show the relative heights of the land; green is for low-lying land, and yellows, browns, and gravs are for higher land. Water features like streams, rivers, and lakes are also shown.

WATER FEATURES



2 RELIEF

On this map extract, the blue lines show a number of rivers, including the Salween and the Irrawaddy. The Irrawaddy forms a huge delta, splitting into many streams as it reaches the sea







These mountains are in the north of Southeast Asia. The underlying relief on the map and the colored bands help you to see the height of the land.

HUMAN FEATURES

Maps also reveal a great deal about the human geography of an area. In addition to showing the location of towns and roads. different symbols can tell you only be seen on a map.







The symbol for a settlement can tell you its position, population, and political status. Most towns are shown by a circle or a square. These represent the size of their population. Where the dot for a town is colored red, this shows that it is a capital city such as Kuala Lumpur in Malaysia.

FINDING PLACES

Alphanumeric grid references

All the maps in this book are indexed using their alphanumeric grid reference – for example, G4. To find a place you must first look up its page number and then its grid reference. Read the letters and numbers off the bottom and side of the grid. Using rulers held at right angles to one another you will find the point where the lines meet. The place will be located within this square.

Latitude and longitude references

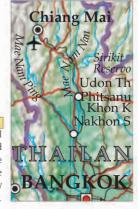
The lines of latitude and longitude are known as graticules. They are shown on the map as thin blue lines with the value of their latitude or longitude given as a blue number at the edge of the map.

5 ROADS AND RAILROADS



Chiang Mai, in northern b
Thailand, is linked to the capital
Bangkok to the south by railroad
and road. At Chiang Mai, the
mountains are too high for the
railroad to continue, and only
roads go north into Myanmar.

a The major road and railroad links between Hue and Nha Trang hug the Vietnamese coast. A string of coastal towns is often connected by road and rail in this manner.



Using the Atlas



This Atlas has been designed to develop mapreading skills and to introduce readers to a wide range of different maps. It also provides a wealth of detailed geographic information about the world today. The Atlas is divided into

four sections: Learning Map Skills; The World About Us, covering global geographic patterns; the World Atlas, dealing with the world's regions and an Index.

THE WORLD ABOUT US

These pages contain a series of world maps that show important themes, such as physical features, climate, life zones, population, and the world economy, on a global scale. They give a worldwide picture of concepts that are explored in more detail later in the book.

Text introduces themes and concepts in each spread



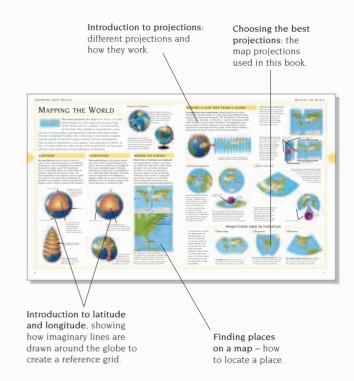
CONTINENTAL ASIA

Photographs illustrate examples of places or topics shown on the main map.

World maps show geographic patterns on a global scale.

LEARNING MAP SKILLS

Maps show the Earth – which is three-dimensional – in just two dimensions. This section shows how maps are made; how different kinds of information are shown on maps; how to choose what to put on a map and the best way to show it. It also explains how to read the maps in this Atlas.



CONTINENTAL MAPS

A cross section through the continent shows the relative height of certain features.

A detailed physical map of the continent shows major natural geographic features, including mountains, lakes and rivers.

Photographs and locator maps illustrate the main geographic regions and show you where they are.

The Charles of the control of the charles of the ch

The political map of the continent shows country boundaries and country names. The industry map shows the main industrial towns and cities and the main industries in each continent. It also shows the wealth of each country relative to the rest of the world.

CONTINENTAL GEOGRAPHY PAGES

Humans have colonized and changed all the continents except Antarctica. These pages show the factors which have affected this process: climate, the availability of resources such as coal, oil, and minerals, and varying patterns of land use. Mineral resources are directly linked to many industries, and most agriculture is governed both by the quality of the land and the climate.

The climate map shows the main types of climate across the continent and where the hottest and coldest, wettest and driest places are.

The mineral resources map shows where the most important reserves of minerals, including coal and precious metals, are found.

The land use map shows different types of land and the main kinds of farming that take place in each area

CONTINENTAL PAGES

These pages show the physical shape of each continent and the impact that humans have made on the natural landscape – building towns and roads and creating borders between countries. They show where natural features such as mountain ranges and rivers have created physical boundaries, and where humans have created their own political boundaries between states.

Note that the state of the stat

The hottest

areas are

colored

orange.

REGIONAL MAPS

The main part of the Atlas contains detailed maps of countries and regions. Each of these is accompanied by a series of small thematic maps, models, and charts, which give information about the climate, where people live, how they use the land, the different kinds of industry, and important environmental issues.

EASTERN EUROPE

TERRAIN MODEL

A computer-generated landscape model shows what the land really looks like There are no roads or towns to mask the physical geography of the country or region. Mountain ranges, plains, and river basins can be easily seen.

COLORED THUMB TAGS

Each section has its own color code.

Learning Map Skills

North America

The World About Us

South America

Africa

Europe

Asia

Australasia and Oceania

Antarctica and the Arctic

CLIMATE MAPS

These maps show the temperature and rainfall patterns in January and July. Colored bands indicate temperatures: blue for low temperatures, orange for high ones. Rainfall is represented by black lines with a number giving the average amount of rain. These are called isohyets.

Isohyets show the rainfall patterns in inches per year. The areas between the lines are either over or under the figures shown on



Here the rainfall is between 2 and 4 inches per year.

LOCATOR GLOBE

JULY

This shows the location of the country or region both within its continent and in relation to the rest of the world.

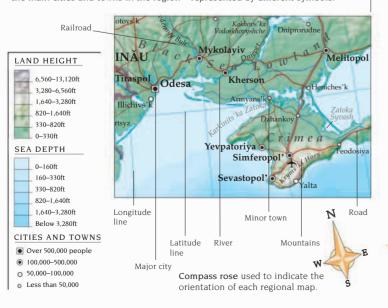


MAP GRID

Each main map has a grid. Using the grid will help you to find a place on the map. Grid references are expressed as letters (running from left to right across the frame), and numbers (running from the top to the bottom of the frame), for example, A-4, G-6. Everything on the map is referenced in the Index at the back of the book

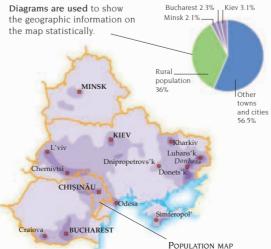
REGIONAL MAPS

The main map on each regional page shows the main topographical features of the area: the height of the land, the major roads, the rivers and lakes. It also shows the main cities and towns in the region – represented by different symbols.

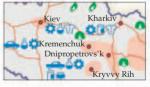


THEMATIC MAPS

These small maps show various aspects of the geography of the country or region. The environment maps cover topics such as the effects of pollution. Industry, land use, and population maps locate the major industries, types of agriculture, and the distribution of population.



INDUSTRY MAP



LAND USE MAP



ENVIRONMENT MAP



THE PHYSICAL WORLD





THE EARTH'S STRUCTURE

The shape and position of the Earth's oceans and continents make a familiar pattern. This is just the latest in a series of forms that the Earth has taken in the hundreds of millions of years since its creation. Massive forces inside the Earth cause the continents

and oceans to move apart and together again, forming larger landmasses and then breaking them apart – a process known as plate tectonics. The movement is very slow – but over millions of years, the changes can be enormous.

DYNAMIC EARTH

The heart of the Earth is a solid core of iron surrounded by several layers of very hot – sometimes liquid – rock. The crust is relatively thin and is made up of a series of "plates" that fit closely together. Movement of the molten rock deep within the mantle of the Earth causes the plates to move, creating changes in the surface features of the Earth.

Continental plate Oceanic plate Plate boundary or margin

Continental and oceanic plates are tectonic plates are made from crustal rock



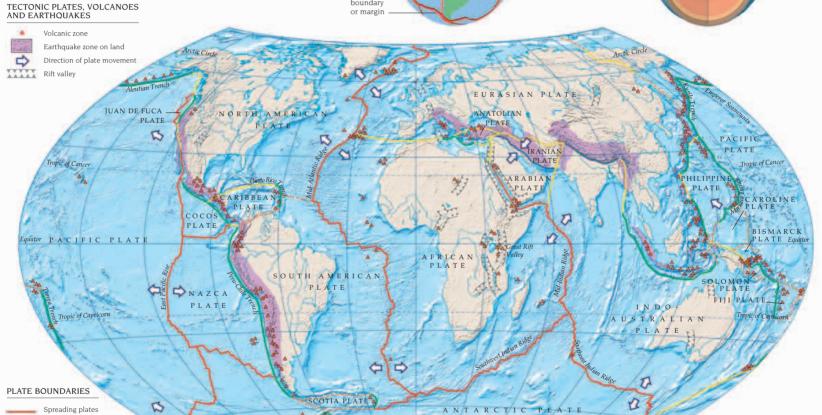
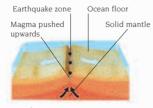


PLATE BOUNDARIES

Colliding plates
Diving plates
Sliding plates
Uncertain plate boundary

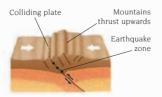
The point where two plates meet is known as a plate boundary. As the Earth's plates move together or apart or slide alongside one another, the great forces that result cause great changes in the landscape. Mountains can be created, earthquakes occur, and there may be frequent volcanic eruptions.

SPREADING PLATES



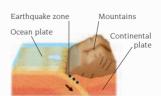
As plates move apart, magma rises through the outer mantle When it cools, it forms new crust. The Mid-Atlantic Ridge is caused by spreading plates.

COLLIDING PLATES



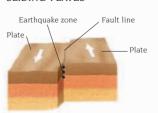
When two plates bearing landmasses collide with one another, the land is crumpled upward into high mountain peaks such as the Alps and the Himalayas.

DIVING PLATES



When an ocean-bearing plate collides with a continental plate it is forced downward under the other plate and into the mantle. Volcanoes occur along these boundaries.

SLIDING PLATES



As two plates slide past each other, great friction is set up along the fault line that lies between them. This can lead to powerful earthquakes.

SHAPING THE LANDSCAPE

The Earth's surface is made from solid rock or water. The land is constantly reshaped by external forces. Water flowing as rivers or in the oceans erodes and deposits material to create valleys and lakes and to shape coastlines. When water is built up and compressed into solid sheets of ice, it can erode more deeply, creating deeper, wider valleys. Wind also has a powerful effect: stripping away vegetation and transporting rock particles vast distances.



Most rivers have their sources in mountain areas. They flow fast through the mountains, eroding deep V-shaped valleys. As they reach flatter areas they begin to meander in great loops, both eroding and then depositing rock particles as they slow down.

GLACIERS



In cold areas, close to the poles or on mountaintops, snow is built up into rivers of ice called glaciers. They move slowly, eroding deep U-shaped valleys. When the glacier melts, ridges of eroded rock called moraines are left at the sides and end of the glacier.

SEA ACTION



The oceans change the landscape in two major ways. They batter cliffs, causing rock to break away and the land to retreat, and they carry eroded material along the coast, to make beaches and sandbars.



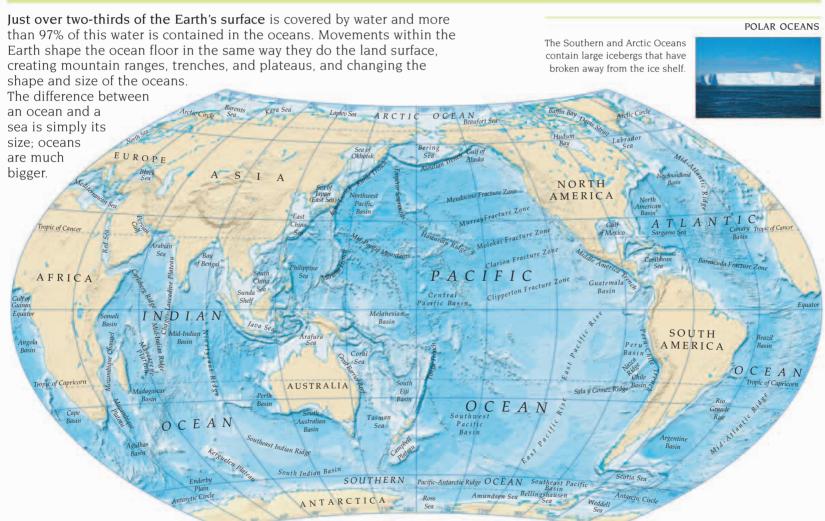
Wind can erode and break down rock into smaller boulders and stones and eventually into sand. Desert sand dunes are shaped by the force of the wind and vary from ripples to hills 650 ft high.

LANDSLIDES



Heavy rain can loosen soil and rock beneath the surface of slopes. As this moves, the top layers slip, forming heaps of rubble at the base of the slope.

THE WORLD'S OCEANS



INDIAN OCEAN



The Indian Ocean covers about 20% of the world's surface. Ocean swells, starting deep in the Southern Ocean, often cause flooding in Sri Lanka and the Maldives.

PACIFIC OCEAN



The Pacific is the largest and deepest ocean in the world. It is surrounded by an arc of volcanoes, including Japan, Indonesia, and the Andes, known as the "Ring of Fire."

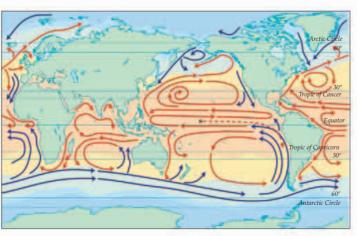
ATLANTIC OCEAN



The Atlantic Ocean was formed about 180 million years ago. The land that now forms Europe and Africa pulled apart from the Americas to create an ocean 1,900 miles wide.

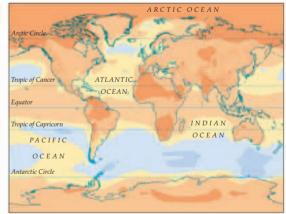
THE WORLD ABOUT US CLIMATE AND LIFE ZONES HURRICANES This map shows the different climates found around the world. Climates are particular combinations of temperature and humidity. Climates are affected by latitude, the height of the land, winds, and ocean currents. Climates can Hurricanes are violent cyclonic windstorms, driven by heat change, but not overnight. Weather is local and consists of short-term events energy gathered from tropical such as thunderstorms. seas. The Caribbean islands and the east coast of the US are hurricanes, and particularly prone to hurricanes. blizzards. PREVAILING WINDS Cool wind Warm wind RADE ORTH EAST TRADES TRADE opic of Caprice (continued) WORLD CLIMATE WORLD CLIMATE WESTERL Ice cap Mediterranean Subarctio Semiarid Tundra Arid Continenta Hot humid Temperate Humid equatorial Warm temperate Tropical CLIMATE CHANGE

The Earth's climate is a constantly changing system resulting from a complex interaction of different geographical factors. Throughout history there have been several periods when the Earth's climate has been either hotter or colder than today. However, many scientists think that human activity is causing problems to this system by increasing levels of "greenhouse gases" in the atmosphere. These gases, including carbon dioxide (CO2), allow heat from the Sun to enter the atmosphere and then trap some of this heat like a greenhouse. Most scientists believe that unless action is taken to reduce greenhouse gases, temperatures will rise in a process known as global warming.



MAP KEY Predicted change in average surface air temperature between 2070-2100

7.2 to 9.0°F 5.4 to 7.2°F 3.6 to 5.4°F 1.8 to 3.6°F 0 to 1.8°F



OCEAN CURRENTS

Ocean currents help distribute heat around the Earth and have a great influence on climate. Convection currents circulate massive amounts of warm and cold water around the oceans. Warm water is moved away from the tropics to higher latitudes and cold water is moved toward the tropics.



LIFE ZONES

The map below shows the Earth divided into different biomes – also called biogeographical regions. The combination of climate, the type of landscape, and the plants and animals that live there are used to classify a region. Similar biomes are found in very different places around the world.



The North and South Poles are permanently covered by ice. Only a few plants and animals can live here.

TUNDRA



Tundra is flat, cold, and dry, with few trees. Plants such as mosses and lichens grow close to the ground.



DESERTS
Very little rain falls in desert areas, whether they are hot deserts such as the Sahara or cold deserts like the Gobi.



CONIFEROUS FORESTS
Tall coniferous trees such as pine and spruce, with spines or needles instead of leaves, grow in the far north of Scandinavia, Canada, and the Russian Federation.



BROADLEAF FORESTS
Broadleaf or deciduous forests once covered temperate regions over most of the Northern Hemisphere. They contain trees of many varieties – all of which shed their leaves every year.



TEMPERATE RAIN FORESTS Evergreen, broadleaved trees need a warmer, wetter climate than deciduous trees. They are known as temperate rain forests.



MEDITERRANEAN Close to the shores of the Mediterranean Sea, the vegetation consists mainly of herbs, shrubs, and drought-resistant trees.





TEMPERATE GRASSLANDS Grasslands cover the central areas of the continents. They are known in the middle latitudes as prairies, steppe, and pampas.



SAVANNA
The savanna consists of woodland interspersed with grassland. These regions lie between the tropical rain-forest and hot desert regions.



DRY WOODLANDS
Dry woodlands are found at
the edge of grasslands. They
contain small trees and shrubs
adapted to dry conditions.



TROPICAL RAIN FORESTS
Around the Equator, where temperatures are high and there is plenty of rain, tropical rain forests flourish.
Trees grow continuously and are tall with huge, broad leaves.



WETLANDS
Low-lying swamps
and marshes are
known as wetlands.
They are often home
to a rich variety of
animal, plant, and
bird species.

WORLD POPULATION

There are now nearly 6,500,000,000 people on Earth. The population has increased to nearly four times that of 1900. Before that date, the number of people increased slowly because people were born and died at similar rates.

With improved living conditions, better medical care, and more efficient food production, more people survived to adulthood, and the population began to grow much faster. If growth continues at the present rate, the world's population is

likely to reach 7,500,000,000 by the year 2020.

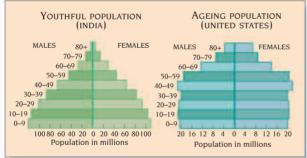
80- 85- 150-

OVERCROWDING

Favelas – or shanty towns – have grown up around many South American cities because of overcrowding.

POPULATION STRUCTURES

Measuring the numbers of old and young people gives the age structure of a country or continent. If there are large numbers of young people and a high birthrate, the population is said to be youthful – as is the case in many African, Asian, and South American countries. If the birthrate is low but many people survive into old age, the population distribution is said to be aging – this is true of much of Europe, Japan, Canada, and the US. Extreme events like wars can distort the population, leading to a loss of population in certain age groups.







POPULATION DENSITY

The main map (center) and the map below both show population density – the number of people who live in a given area. The map below shows the average population density per country. You can see that European countries and parts of Asia are very densely populated. The large map shows where people actually live.

While the average population density in Brazil and Egypt is quite low, the coasts of Brazil and the areas close to the Nile River in Egypt are very densely populated.

DENSE POPULATION



Huge crowds near the Haora Bridge in Kolkata (Calcutta), India – one of the world's most densely populated cities.

POPULATION DENSITY



SPARSE POPULATION



The cold north of Canada has one of the lowest population densities in the world. Some people live in extreme isolation, separated from others by lakes and forests.

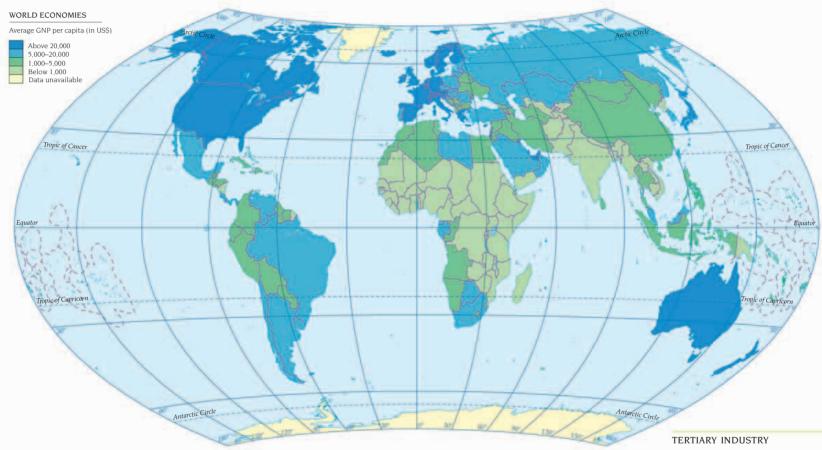
URBAN GROWTH LEVELS OF URBANIZATION The 20th century saw a huge increase in the number of people living in urban areas. This has led to more large cities and the development of some "super cities" such as Mexico City and Tokyo, each with more than 20 million people. In 1900, only about 10% of the population lived in cities. Now it is closer to 50% and soon the figure may be nearer two in three people. Some continents are far more "urbanized" than others: in South America nearly 80% of people live in cities, whereas in Africa the figure is only about 30%. URBANIZATION data unavailable POPULATION GROWTH The rate of population growth varies dramatically between Tropic of Cancer the continents. Europe has a large population but it is increasing slowly. Africa is still sparsely populated, but in some countries such as Kenya, the population is growing very rapidly, increasing pressure on the land. China and India have the world's largest populations. Both countries now have laws designed to curb the birthrate. Equator CONTROLLING GROWTH In 1980, fewer than 25% of women in less-developed countries used birth control. Education programs and more widely available contraceptives are thought to have doubled this figure. But many families still have no access to contraception. AN AGING POPULATION In some countries, a low birthrate and an increasingly POPULATION DENSITY long-lived elderly population (People per sq mile) have greatly increased the ratio of old people to younger 3-13 people, putting a strain on 13-29 health and social services. 30-51 Antarctic Circle 52-130 For example, in Japan, most 131-260 people can now expect to live 261-520 to at least 80 years of age. Above 520 BIRTHRATE LIFE EXPECTANCY LIFE EXPECTANCY AT BIRTH

THE WORLD ECONOMY

Throughout the world, the way in which people make a living varies greatly. The countries of Western Europe and North America, along with Japan and Australia, are the most economically developed in the world, with a long- established and very diverse range of industries. They sell their products and services internationally. Less economically developed countries in Central Asia and much of Africa have a much smaller number of industries – some may rely on a single product – and many goods are produced only for the local market.

MEASURING WEALTH

The wealth of a country can be measured in several ways: for example, by the average annual income per person; by the volume of its trade; and by the total value of the goods and services that the country produces annually – its Gross Domestic Product or GDP. The map below shows the average GDP per person for each of the world's countries, expressed in US\$. Most of the highest levels of GDP are in Europe and the US; most of the lowest are in Africa.



Types of Industry

Industries are usually defined in one of three ways. Primary industries such as farming or mining involve the production of raw materials such as food or minerals. Secondary industries make or manufacture finished products out of raw materials: clothing and car manufacture are examples of secondary industries. People who work in tertiary industries provide different kinds of services. Banking, insurance, and tourism are all examples of tertiary industries. Some economically advanced nations such as Germany and the US now have quaternary industries, such as biotechnology which are knowledge-creation industries, devoted to the research and development of new products

PRIMARY INDUSTRY



Tobacco leaves are picked and laid out for drying in Cuba, one of the world's great producers of cigars. Many countries rely on one or two high-value "cash crops" like tobacco to earn foreign currency.

SECONDARY INDUSTRY



This skilled Thai weaver is producing an intricately patterned silk fabric on a hand loom. Fabric manufacture is an important industry throughout South and Southeast Asia. In India and Pakistan, vast quantities of cotton are produced in highly mechanized factories, but many fabrics are still hand woven.



The City of London is one of the world's great finance centers. Branches of many banks and insurance companies, including the world-famous Lloyds of London, are clustered into the City's "square mile."

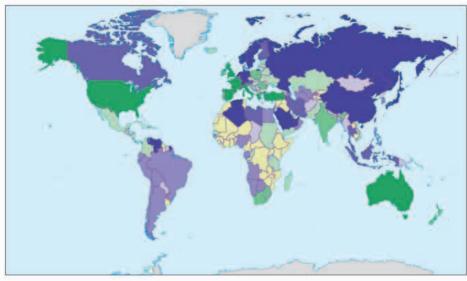
PATTERNS OF TRADE

Almost all countries trade goods with one another in order to obtain products they cannot produce themselves, and to make money from goods they have produced. Some countries – for example those in the Caribbean - rely mainly on a single export, usually a food or mineral, and can suffer a loss of income when world prices drop. Other countries, such as Germany and Japan, export a vast range of both raw materials and manufactured goods throughout the world. A number of huge companies, known as multinational corporations, are responsible for more than 70% of world trade, with divisions all over the world. They include firms like Exxon. Coca Cola, and Microsoft

CONTAINER SHIPS



Many products are transported around the world on container ships. Containers are of a standard size so that they can be efficiently transported to their destinations. Some ships are specially designed to carry perishable goods such as fruit and vegetables.





IRELAND LUXEMBOURG CYPRUS CHINA SOUTH KOREA TAIWAN THAILAND MALAYSIA SINGAPORE BOTSWANA MAURITIUS

DEVELOPING ECONOMIES

Although world trade is still dominated by the more economically developed countries. since the 1970s, less economically developed countries have increased their share of world trade from less than 10% to nearly 30%. Countries such as China, India, Malaysia, and South Korea, aided by investment from their governments or from wealthier countries, have become able to manufacture and export a wide variety of goods. These products include cars, electronics, clothing, and footwear. Multinational companies can take advantage of cheaper labor costs to manufacture goods in these countries. Moves are being made to limit the exploitation of workers who are paid very low wages for producing luxury goods.

ASIAN "TIGER" ECONOMIES



The economies of Malaysia, Taiwan, and South Korea boomed in the late 1980s, attracting investment for buildings such as the Petronas Towers (above).

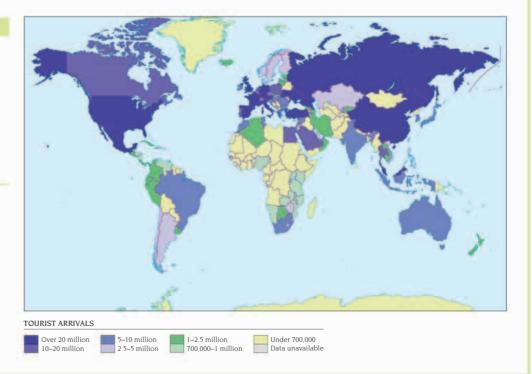
Tourism

Tourism is now the world's largest industry. More than 700 million people travel both abroad and in their own countries as tourists each year. People in more developed countries have more money and leisure time to travel. Tourism can bring large amounts of cash into the local economy, but local people do not always benefit. They may have to take low-paid jobs and experience great intrusions into their lives. Tourist development and pollution may damage the environment – sometimes destroying the very attractions that led to the development of tourism in the first place.

ECOTOURISM



These tourists are being introduced to a giant tortoise, one of the many unique animals found in the Galapagos Islands. A number of places with special animals and ecosystems have introduced programs to teach visitors about them. This not only educates people about the need to safeguard these environments, but brings in money to help protect them.



BORDERS AND BOUNDARIES

There are more countries in the world today than ever before – over 190 – whereas in 1950, there were only 82. Since then, many former European colonies and Soviet states have become independent. The establishment of borders for each of these countries has often been the subject of disagreement.

C A N A D A Great Lakes UNITED STATES OF AMERICA

Long borders

The border between the USA and Canada is the second longest continuous border in the world. It cuts through the center of the Great Lakes. To the west of the Great Lakes, the border runs along the 49° line of latitude.

ATLANTIC

OCEAN

Enclaves

If part of a country's territory has become separated from the rest of the country, and is surrounded by foreign territory, it is called an enclave. Kaliningrad is part of the Russian Federation, but is cut off from it by Lithuania and Belarus.

LATVIA RUSSIAN FEDERATION LITHUANIA KANINGRAD (part of Russ. Fed) POLAND BELARUS

EUROPE

AFRICA

River borders

Over one-sixth of the world's national borders are formed by rivers. Long stretches of the Danube form natural borders in southeastern Europe.



Military borders

At the end of wars, new borders are often drawn up between the countries – frequently along cease-fire lines. They may remain there for many years. At the end of the Korean War in 1953, North and South Korea were divided close to the 38° line of latitude. This border has remained heavily fortified.







NORTH MERICA

> ATLANTIC OCEAN

> > LIBYA EGYPT
> >
> > SUDAN

Mountain borders

Mountain ranges such as the Pyrenees, Alps and Himalayas form natural borders between many countries. In the Andes, border disputes between Chile and Argentina centered on finding the highest point in the mountain range that divided them.

Straight line borders

The borders of many countries in Africa and other former colonial territories are straight lines. This was the simplest solution for colonial administrators, who often knew little of the country's geography or population.

OCEAN

INDIAN



Lake boundaries

Countries which lie next to lakes usually fix their borders in the middle of the lake. Complicated agreements between colonial powers led to the awkward division of Lake Nyasa in Africa.



AUSTRALASIA

AND OCEANIA

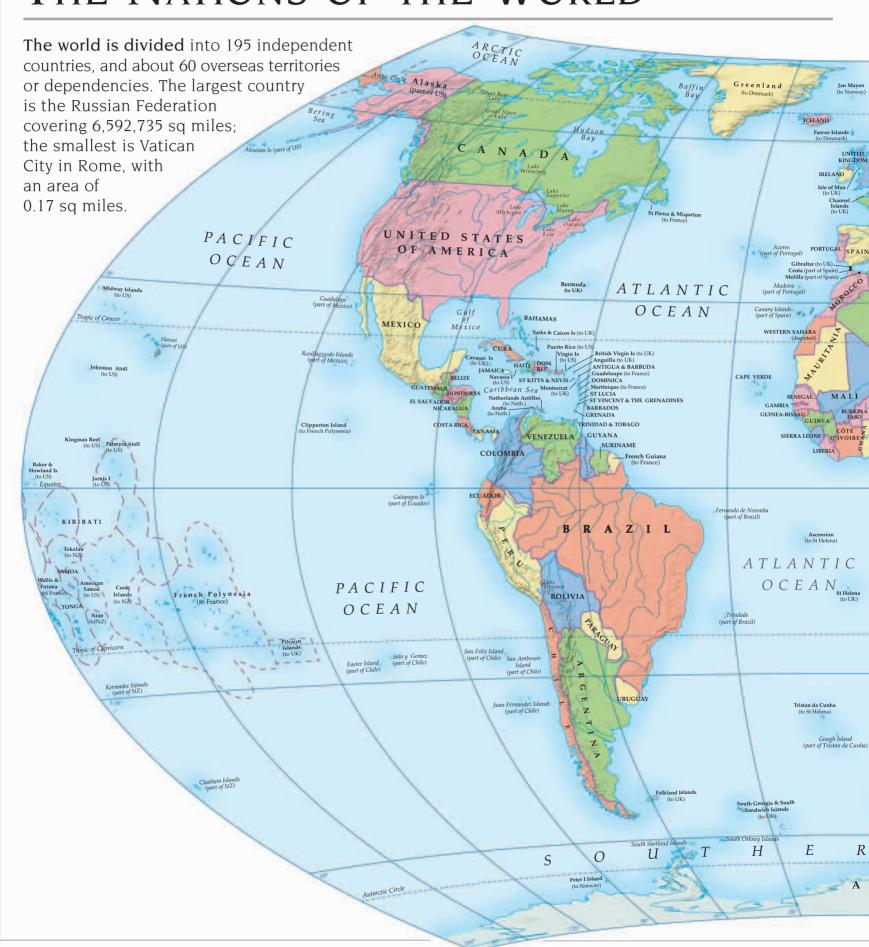
Territorial disputes

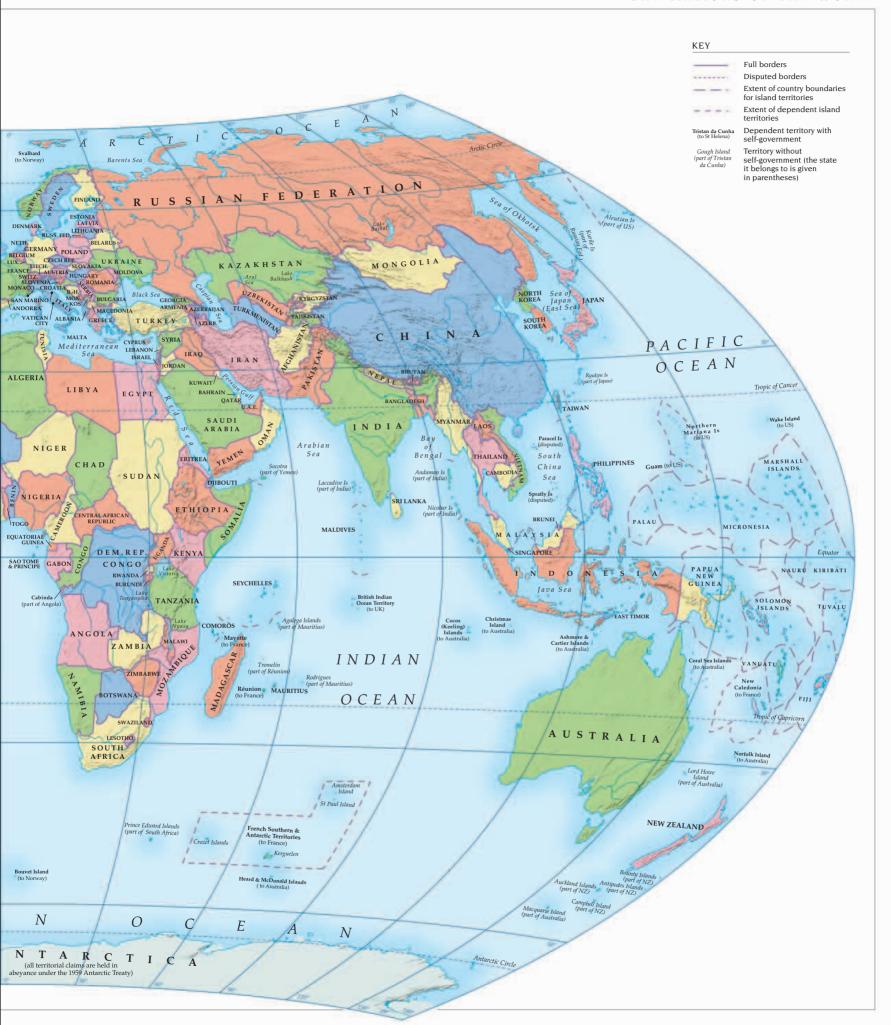
There are still many disputed territories and borders. One of the most serious territorial disputes is between India and Pakistan over Jammu and Kashmir, which has led to three wars since 1947.

THE ATLAS OF THE WORLD



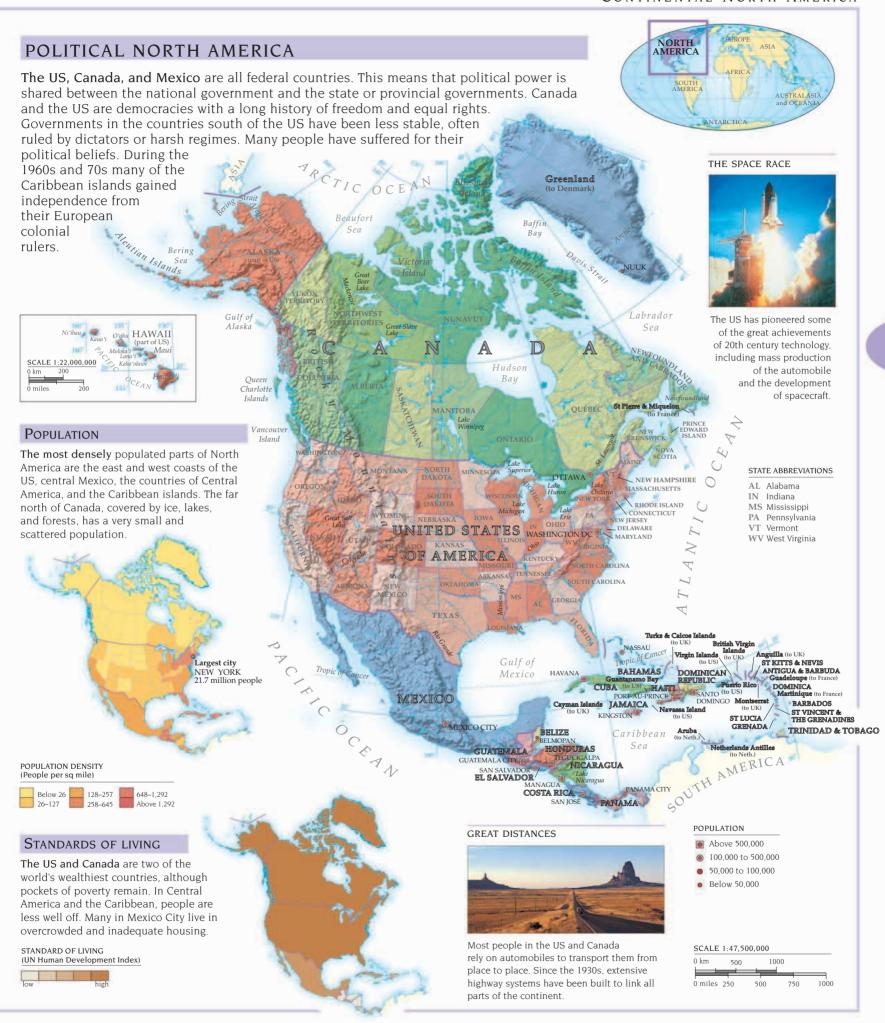
THE NATIONS OF THE WORLD





CONTINENTAL NORTH AMERICA





North American Geography

Canada and the US are among the world's wealthiest countries. They have rich natural resources, good farmland, and thriving, varied industries. The range of different industries in Mexico is growing, but other Central American countries and the Caribbean islands rely on one or two important cash crops and tourism for most of their incomes. They have a lower standard of living than the US and Canada.

MINERAL RESOURCES

North America still has large amounts of mineral resources. Canada has important nickel reserves. Mexico is renowned for its silver, and bauxite used to make aluminum – is found in Jamaica. Oil and gas are plentiful, particularly in the Arctic northwest by the Beaufort Sea, and farther south by the Gulf of Mexico.

INDUSTRY

The US and Canada have an extremely wide range of industries, from mining and the processing of farm produce, to heavy and light manufacturing and service industries like banking. A variety of goods are produced, including airplanes, cars, and computers. Oil exports and machine assembly are Mexico's main industries. In Central

Beaufor

+ # DO#

America and the Caribbean nations, most industry is based on agricultural produce.

US



TIMBER PROCESSING

Greenland

Labrador



Huge tracts of forest are found toward the north of the continent: nearly 30% of Canada is covered by forest. Timber is processed to make paper in cities such as Portland and Vancouver

HIGH-TECH INDUSTRY



The Santa Clara Valley, just south of San Francisco, is also known as Silicon Valley because of the number of firms producing computer hardware and software and microelectronics that have set up in the area.

GNI per capita (US\$)

Research and development

Below 1 999 2 000-4 999 5 000-9 999 10 000-19 999 20,000-24,999

INDUSTRY

Aerospace

Chemicals Coal Defense Engineering

Film industry Finance

Iron and steel

Oil and gas

Shipbuilding

Timber processing

Textiles

Food processing

Pharmaceuticals Printing and publishing

High-tech industry

Car/vehicle manufacturing

Brewing

Above 25,000

Industrial center MANUFACTURING

Gulf of

GUATEMALA

Mexico has many car part assembly plants. Labor costs in Mexico are low, making it cheap to assemble car parts here

ATLANTIC OCEAN

DOMINICAN

HAITI Caribbean

Sea HONDURAS TH AMERICA San Salvador NICARAGUA

Managua

Panai EL SALVADOR COSTA RICA 65 PANAMA

FOOD PROCESSING



Jamaica has been famous for its rum since the 16th century. Syrup is extracted from sugarcane, which is then fermented to make rum.

CLIMATE NORTH AMERICA CLIMATE Ice cap Much of northern Canada lies Tundra within the Arctic Circle and is Subarctic Cool continental permanently covered by ice or the Warm temperate sparse vegetation known as tundra. Mediterranean Southern Canada and much of central Semiarid US have a continental climate, with hot Arid Humid equatorial summers and cold winters. The southern SON LAKE (BC, Canada Tropical parts of the US, Central America, and the Hot humid Caribbean have a hot, humid tropical NORTH AMERICA'S HOTTEST PLACE Hottest place DEATH VALLEY (CA, USA) climate. The Caribbean and the eastern and central states of the US often Death Valley in experience hurricane-force California is the hottest winds, waterspouts. and driest place in and tornadoes. the US. Strong, dry winds sweep through EXTREME WEATHER EVENTS the valley, constantly reshaping the sand and Symbols indicate salt deposits that climatic extremes cover its floor. LAND USE AND AGRICULTURE LAND USE AND AGRICULTURE On the Great Plains and prairies Cattle Poultry of the US and Canada, vast ARCTIC OCEA Pigs Reindeer quantities of cereal crops. Sheep including corn Bananas and wheat, grow Cereals Beaufori Citrus fruits in the fertile Coffee soils. Cattle are Corn also raised on great Cotton Fishing ranches throughout Fruit these regions and on the Labrador Peanuts Gulf of Rice foothills of the Rocky Mountains. Shellfish In California, vegetables and fruits Sovbeans are grown with the aid of irrigation. Sugarcane Hudson Timber Bananas, coffee, and sugarcane are Tobacco grown for export in Central America and Vineyards the Caribbean, while sorghum and corn Cropland Desert are grown as subsistence crops. Ice cap Mountain region BANANA PLANTATION Pasture Tundra Banana plantations Wetland are common in the Major conurbation Caribbean and Central America. The fruit is grown for local consumption and for export to the US and Europe, where they are ATLANTIC valued for their flavor and nutritional qualities. OCEANFISHING Missi Gulf of The Grand Banks off the eastern coast of Canada were once home to almost limitless fish stocks. Overfishing has reduced the Caribbean number of fish to very low levels. Quotas limiting the H AMERICA numbers of fish caught help the numbers to rise.

Western Canada

ALBERTA, BRITISH COLUMBIA, MANITOBA, NORTHWEST TERRITORIES, NUNAVUT, SASKATCHEWAN, YUKON TERRITORY

The first inhabitants of Canada's western provinces were Native Americans. By the late 1800s, the Canadian Pacific Railroad was completed and European settlers moved west, turning most of the prairie into huge grain farms. North of the prairies lie the vast, empty territories that have significant Native American populations. In 1999, part of the Northwest Territories, known as Nunavut, became a self-governing Inuit homeland.

FARMING AND LAND USE

More than 20% of the world's wheat is grown in Canada's prairie provinces: Manitoba, Alberta, and Saskatchewan. Beef cattle graze on the ranches of Alberta and British Columbia. Fruits. especially apples, flourish in the sheltered southern vallevs of British Columbia. and Pacific salmon and herring are caught off

LAND USE

Cropland 4%

mountains)

the west coast.

Pasture 5%

Islands and inlets (C6, C7)

by the force of the Pacific Ocean.

The British Columbia coast is peppered

with islands and fjordlike inlets, created



FARMING AND LAND USE

Major conurbation

INDUSTRY

The major industries in the prairie provinces are related to agriculture, such as meat-processing in Manitoba. Alberta has huge reserves of fossil fuels. and the other provinces are rich in minerals, including zinc, nickel. silver, and uranium. British Columbia's economy depends on manufacturing, especially

automobiles, chemicals, and machinery, along with paper and STRUCTURE OF INDUSTRY timber industries.



THE LANDSCAPE

Cattle Fishing

Cereals

Fruit

1 Timber

The prairie provinces are mostly flat. Occasionally, the level plains are broken up by river valleys such as that of the Qu'Appelle in Saskatchewan. In the west, the jagged peaks and steep passes of the Rocky Mountains and the Coast Mountains are covered in snow for months on end. West of the Rockies, the land descends sharply toward the coast of British Columbia. The far north is covered by dense forests and many glacial lakes.

River valleys

Prairie river valleys such as the Qu'Appelle (F7)

(French for "who calls") were cut by glacial

meltwater thousands of years ago.

Manufacturing 30%



The Arctic

Most of Canada's northern islands are within the Arctic Circle. They are covered by ice vear-round.

Pasture

Forest

Barren

Tundra

Cropland

Mountain region

ENVIRONMENTAL ISSUES

For hundreds of years sailors have searched in vain for a route from Europe to Asia via the Northwest Passage, through the north of this region. In recent summers the sea ice has retreated further north, and in 2007 the route was completely navigable.

Many of the extensive forests in British Columbia are used for commercial lumbering. The province produces more than half of Canada's timber.

Mount Logan (B5) Mount Logan is Canada's tallest peak. It rises 19,551 ft. Glacial lakes The plains are covered by thousands of lakes, many of which are vast. They are the remains of great glacial lakes left after the last Ice Age.

ENVIRONMENTAL.

Lumbering activity Major industrial center

Northwest Passage - direct route

6

7

WESTERN CANADA

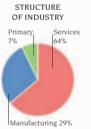
EASTERN CANADA

NEW BRUNSWICK, NEWFOUNDLAND AND LABRADOR. NOVA SCOTIA, ONTARIO, PRINCE EDWARD ISLAND. QUÉBEC

The first European settlements grew up in the Atlantic provinces, and along the St. Lawrence River, where Québec City and Montréal were founded. People gradually migrated farther west along the St. Lawrence River and the Great Lakes, establishing other cities including Toronto. Although the majority of Canadians speak English, people in Québec speak mainly French, and both English and French are official languages in Canada.

INDUSTRY

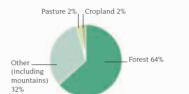
In the Atlantic provinces the traditional fishing industry has declined, causing unemployment. However, Newfoundland has a thriving food processing industry. Ontario and Québec have a wide range of industries, including the generation of hydroelectricity, mining, and chemicals, car manufacturing and fruit canning in the great cities. Large amounts of wood pulp

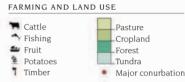




FARMING AND LAND USE

The best farmland lies on the flat, fertile plains close to the St. Lawrence River and on the strip of land between Lake Erie and Lake Ontario. It is used to grow fruits such as grapes, cherries, and peaches, and to raise cattle. Nova Scotia has fruit farms, and the rich red soils of Prince Edward Island produce a big potato crop. The vast forests that grow across the north are a major source of timber. LAND USE

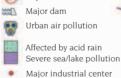




ENVIRONMENTAL ISSUES

Acid rain caused by emissions from factories in the US and along the St. Lawrence River destroys forests and kills marine life. Massive hydro-electric power projects in James Bay on Hudson Bay have flooded huge areas of land, affecting the environment and the local Cree people. Overfishing in the

Atlantic has led to limits being set on the number of fish that can be caught. ENVIRONMENTAL ISSUES Depleted fish stocks



Iames Bay

THE LANDSCAPE

A huge, ancient mass of rock called the Canadian Shield lies beneath much of eastern Canada. It is covered by low hills, rocky outcrops, thousands of lakes, and huge areas of forest. Much of the Canadian Shield is permanently frozen. The St. Lawrence River flows out of Lake Ontario and into the Atlantic Ocean. It is surrounded by rolling hills and flat areas of very fertile farmland.

Scoured by ice

About 20,000 years ago, Labrador and northern Québec were completely covered by ice. The glaciers scraped hollows in the rock beneath. When the ice melted, lakes were left in the hollows that remained.

Lake Superior (B5)

Lake Superior is the largest freshwater lake in the world. It covers an area of 32,150 sq miles and lies between Canada and the US

St. Lawrence River (E5)

The St. Lawrence River is 744 miles long. Parts of it have become silted up, causing it to be braided into many different channels. Between December and mid-April the river freezes over.

Highlands

The highlands of New Brunswick, Nova Scotia. and Newfoundland are the most northerly part of the Appalachian mountain chain.

The Bay of Fundy (F5)

This bay has the world's highest tides. It is shaped like a funnel, and as the Atlantic flows into it, the ever narrowing shores cause the water level to rise 20-50 ft at every high tide.

1

3

5

6

US: THE NORTHEASTERN STATES

CONNECTICUT, DELAWARE, MAINE, MASSACHUSETTS, NEW-HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, VERMONT

The dynamic 200-year boom of the northeastern states has been the result of a combination of factors. Between 1855 and 1924, over 20 million people poured into the region from all over the world, hoping to build a new life. Natural resources, including coal and iron, fueled new industries and fertile farmland provided food for the region's growing population. The "gateway" cities of the Atlantic seaboard, New York and Boston, enabled manufacturers to export their goods worldwide.

INDUSTRY Boston, New York, and Philadelphia are international centers of industry and commerce. Electronics and communications are growing throughout the Northeast alongside traditional industries such as fishing and wood products. Tourism is vital for the INDUSTRY northeastern states. Chemicals particularly along Engineering the Atlantic coast Food processing Iron and steel Pharmaceuticals STRUCTURE Textiles OF INDUSTRY Timber processing Manufacturing Defense Finance High-tech Research and Tourism Services 83% **ENVIRONMENTAL ISSUES** The high level of industry and the large population puts great pressure on the environment. Air range, formed when pollution from automobiles and industry led to poor air quality in many cities and caused acid rain. The problem is worse toward the Great Lakes, where severe lake pollution has occurred. **ENVIRONMENTAL ISSUES** Urban air pollution Wind farm Affected by acid rain

FARMING AND LAND USE

The varied landscape of the northeastern states supports a great range of farming. Livestock, including cattle, horses, poultry. and pigs, are raised throughout the region. The main crops are fruits and vegetables. Fishing is important, especially off the Atlantic coast of Maine. FARMING AND Cattle Pigs Poultry Tishing Cereals LAND USE Cranberries Fruit Maple syrup Timber Forest 64% Cropland Forest Pasture Major conurbation

THE LANDSCAPE

The Appalachian and Adirondack Mountains form a barrier between the marshy lowlands of the Atlantic coast and the lowlands farther west. The interior consists of rolling hills, fertile valleys, and thousands of lakes created by the movement of glaciers.



Long Island Sound (F5)
Long Island Sound is a river valley that was drowned by rising sea levels.

Finger Lakes (D3)

Delaware Bay (D6)

The long, narrow Finger

Lakes lie in upper New

York state. They were
cut by glaciers.

Deep bays such as Delaware Bay are often
surrounded by salt marshes and barrier
beaches that create ideal breeding conditions
for a wide variety of birds and animals.

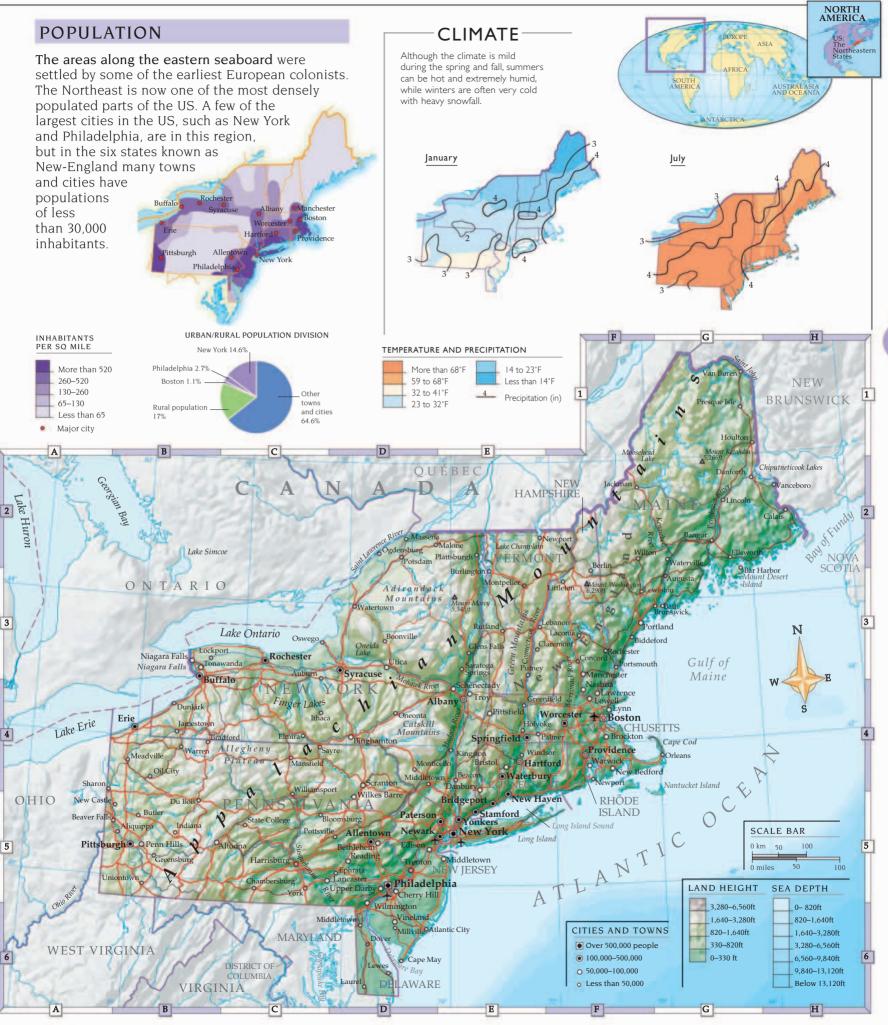
Severely affected by acid rain

Sea/lake pollution

Severe sea/lake pollution

Major industrial center

Polluted rivers



US: The Southern States

ALABAMA, ARKANSAS, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, LOUISIANA, MARYLAND, MISSISSIPPI, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA, WEST VIRGINIA

The southern states suffered great devastation and poverty as a result of the Civil War (1861–65). Recovery has come with the discovery and exploitation of resources and the development of major commercial and industrial centers. Yet these states retain the vibrant mix of cultures that reflect their French, Spanish, English, and African heritage.

INDUSTRY

Tourism is a major industry in the "sunbelt" states, especially Florida, and many people move to the area when they retire to enjoy the climate. Oil and gas are extracted along the coast of the Gulf of Mexico, and there are many related chemical industries. Textiles

are still produced in North and South Carolina, but aerospace and other hightech industries have been established as well.



Little Rock

POPULATION

Creoles, descended from WASHINGTON, DO Spanish and French colonizers, and Cajuns, of French-Canadian ancestry, live in the south of Charlotte this region. Florida has a large eenville Hispanic population, increased by migration from the Caribbean. In the early 20th century, five million black Mobile people, the descendants of slaves, left the South for cities in the North.



FARMING AND LAND USE

Cotton is still the South's main crop, but many old cottonfields are now pastures where all types of livestock are raised. Florida is famous for citrus fruits. while Georgia is renowned for peanuts. Sugarcane. sovbeans. tobacco, corn. fruits, and rice are grown in other areas FARMING AND LAND USE Fishing Soybeans Pigs Sugarcane LAND USE Poultry Timber

Pasture 12%

Cropland 15%

Other 22 %

THE LANDSCAPE

Major conurbation

Tobacco

Forest

Pasture

Wetland

Cropland

Shellfish

Corn

Fruit

Gitrus fruit

Cotton

Peanuts

the Missouri, it is nearly 3,800

fourth-longest river

Thermal springs

Hot Springs National

Park in Arkansas has

47 thermal springs

and is a popular

here in the hot

water that trickles

from the hillsides.

tourist and health

resort. Visitors relax

miles long, making it the world's

The South is a land of contrasts, the uplands of the Appalachians, the foothills of the Piedmont, and low-lying coastal regions are all featured. The interior lowlands are drained by the Mississippi, Florida is dotted with thousands of lakes and is home to the Everglades, a giant sawgrass swamp.

Mississippi River (C4) Kentucky Bluegrass Barrier beaches (13) (E2) A major transportation artery the Mississippi was an essential The gently rolling route in opening up the interior bluegrass landscape region. With its main tributary,

of northern Kentucky livestock-raising country. Sandy barrier beaches and islands line the eastern and southern coasts, along with sheltered lagoons and salt marshes

Forest 51%

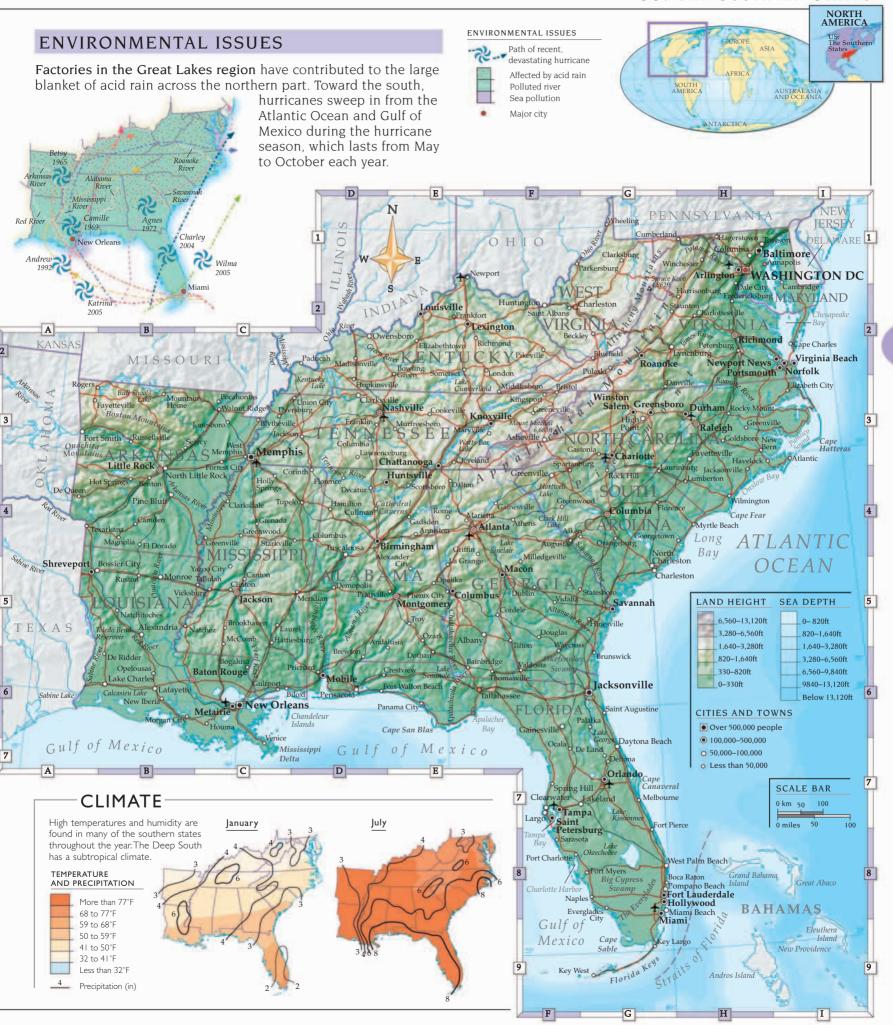
The Everglades The Everglades cover 5,000 sq miles and support abundant wild animals and plants, many unique

Tennessee River (D4) Limestone caves (E4)

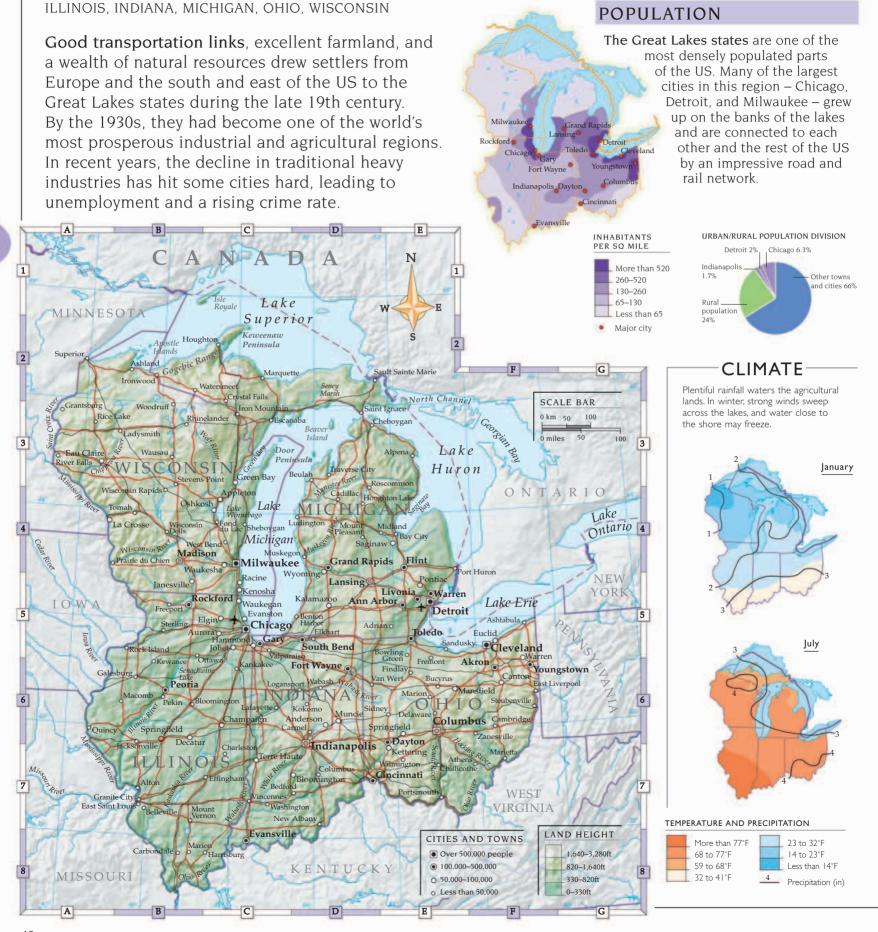
The Tennessee River is 625 miles long. Dams along the river generate hydroelectricity to provide most of the region's energy needs.

Cathedral Caverns in Alabama is a collection of enormous limestone caves. The main entrance is more than 1,000 ft high and 150 ft wide.

to the area.



US: THE GREAT LAKES STATES



FARMING AND LAND USE

Michigan is renowned for its cherries and apples. Corn and soybeans are the main crops produced in the region's southern states. Livestockrearing includes pig and poultry farms - many very large - in Illinois, Indiana, and Ohio. Cattle rearing and dairy farming are common in

Michigan and Wisconsin. FARMING AND LAND USE Cattle Vineyards Pigs Wheat Poultry Cropland Corn Fruit Forest Soybeans Pasture Major conurbation Tobacco

THE LANDSCAPE

Until about 10,000 years ago, much of this region was

covered by great ice sheets that extended south to Illinois

and Ohio. When the ice melted the Great Lakes were left in large hollows that the ice had scoured. The ice sheets

changed the course of many rivers, so today most rivers flow south into the Misissippi/Missouri River system.

INDUSTRY

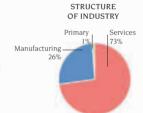
LAND USE

Cropland 47%

The US automobile industry grew up on the banks of the Great Lakes, supported by the manufacture of iron and steel. Both industries have suffered in recent years from competition









of smaller lakes and many marshy areas. Like the Great Lakes, they were formed by erosion by the retreating ice at the end of the last Ice Age

sheets left long ridges

and piles of rock to the

south of Lake Michigan.

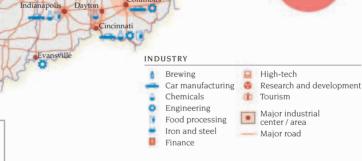
known as moraines, can

Some of these ridges,

be up to 300 ft high.

Underground water

In northern Illinois much of the water is pumped from underground reservoirs. In some places, the water table has dropped by 700 ft over the last century, so many areas now face a water shortage



Moraines When the last ice age Lake Erie (F5) ended, the retreating ice

ENVIRONMENTAL ISSUES

The heavy industries on the banks of the Great Lakes have caused terrible pollution over the last century. Industrial effluent has polluted

the lakes themselves, and factory emissions have led to severely acidic rain, which affects forests and lakes both here and farther away in Canada.

ENVIRONMENTAL ISSUES Urban air pollution Wind farm Affected by acid rain Severely affected by acid rain Polluted rivers

Lake pollution

Severe lake pollution

Major industrial center



Limestone region Limestone in the hills of southern Indiana has been dissolved by acid rainwater. This has produced features such as sinkholes and

underground caves.

Lake Erie is the shallowest of the Great Lakes. Its average depth is about 62 ft. Storms that sweep across from Canada have eroded its shores and caused the silting of its harbors.

US: THE CENTRAL STATES

IOWA, KANSAS, MINNESOTA, MISSOURI, NEBRASKA, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA

The prairie states of the central US became one of America's richest agricultural regions in the mid-19th century. Despite the "Dustbowl" crisis of the 1930s, which led many farmers to leave their ruined lands, agriculture is still crucial to the economy, and one third of the people still live in rural areas rather than large cities.



FARMING AND LAND USE

Wheat and corn grow on the fertile plains.
Kansas is the leading grower of wheat in the entire US, while Iowa is one of the leaders in corn and livestock. Irrigation projects to combat drought are crucial in large areas. Livestock – including cattle in vast herds; pigs, particularly in Iowa, the Dakotas, and Nebraska; sheep; and turkeys – are raised throughout these states.

Cattle

Pigs

Poultry

Sheen

Wheat

Corn Soybeans

FARMING AND LAND USE

Cropland

Major conurbation

Forest

Pasture

INDUSTRY

STRUCTURE

OF INDUSTRY

Manufacturing 20%

Industries related to agriculture, such as food processing and the production of farm machinery, are traditional in these states but high-tech industries – such as aeronautical engineering – are

increasing and large aerospace plants are found in Wichita and Saint Louis. Oil and gas are extracted in great quantities toward the south of the region, especially in Oklahoma and Kansas.



THE LANDSCAPE

Cropland 43%

Most of the eastern edge of this region is marked by the Mississippi River, while the Missouri bisects it, running from northwest to southeast. The Great Plains cover most of this area, gradually rising toward the Rocky Mountains at the far western edge of the Central States.

The Badlands (A4)

LAND USE

The Badlands cover an area of about 2,000 sq miles in South Dakota. Heavily eroded by wind and water, almost nothing grows there.

Minnesota

Minnesota is filled with lakes, hills strewn with boulders, and mineral-rich deposits that have been left behind by the scouring movement of glaciers.

ENVIRONMENTAL ISSUES

Intensive agriculture requires large quantities of water to grow crops. Overintensive use of the land has destroyed the balance of soil and water in the past, leading to fertile farmland being turned into useless areas of "Dustbowl." These states have

Saint Paul

James River
Minneapolis

Niobrara
River
Missouri
River
River
Kansas City
Saint Louis

Ogallala
Arkansas
Aquifer
River

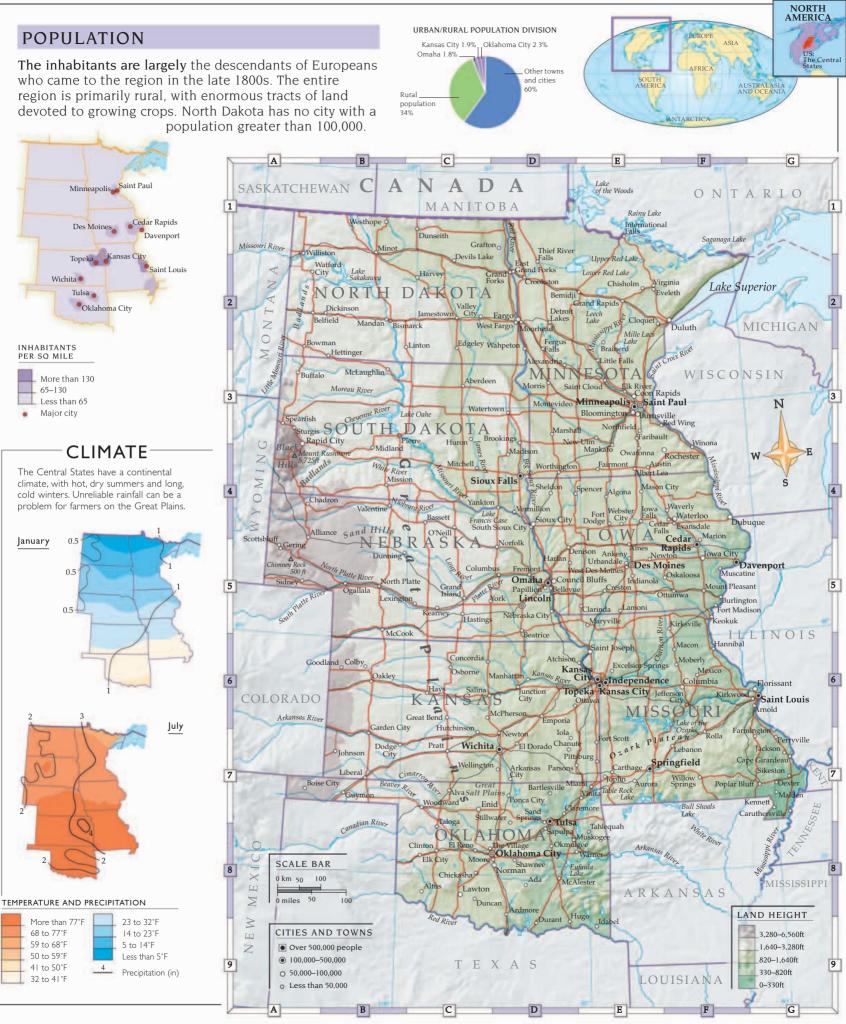
a great underground store of water known as the Ogallala Aquifer, but overextraction for irrigation is reducing the amount of available water.

Urban air pollution Wind farm Affected by acid rain Aquifer Polluted river Risk of desertification Major industrial center

Chimney Rock (A-5) Chimney Rock stands 500 ft above the plains. It is a remnant of an ancient land surface that was eroded by the North Platte River. Great Plains (D7) Great Salt Plains (D7)

that cover most of these states were home to wild grasses and massive herds of buffalo. In areas where lack of water has made farming impossible, large tracts of land are being allowed to return to grassland.

These arid salt plains cover about 45 sq miles of northern Oklahoma. An ancient salt lake once occupied the area. When the salt evaporated, only the salt flats were left.



US: THE SOUTHWESTERN STATES

ARIZONA, NEW MEXICO, TEXAS

Large parts of the southwestern states were purchased from Mexico in 1848. This land of expansive plateaus, spectacular canyons, prairies, and deserts is home to several distinct peoples, whose customs and traditions are still practiced. The Navaho and Hopi own one-third of the land in Arizona, and the ruins of thousand-year-old cliff dwellings built by the Anasazi people are still preserved there today.

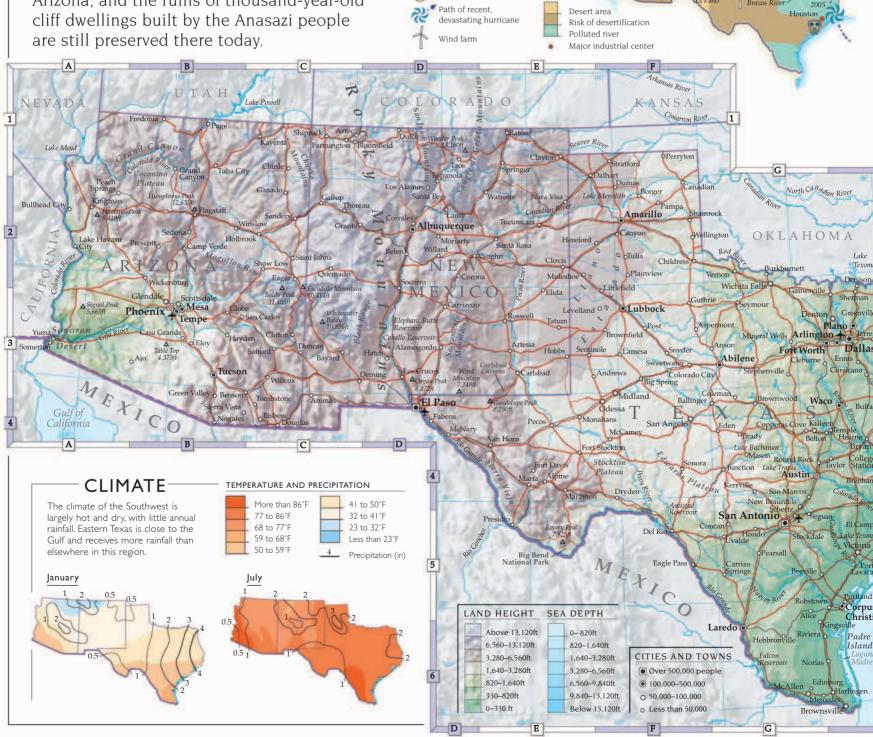
ENVIRONMENTAL ISSUES

places remain contaminated.

ENVIRONMENTAL ISSUES

Urban air pollution
Former nuclear test site

Desertification is a serious problem in the southwestern states. Lack of water combined with intensive farming has allowed soils to erode. Drought is held at bay by irrigation, but falling water table levels are a cause for concern. New Mexico was the site for many early nuclear weapons tests, and some



THE LANDSCAPE US: The Southwestern The arid, mountainous Colorado Plateau covers Big Bend (E5) nearly half of Arizona, dipping toward the south to Big Bend National Park gets its name form desert basins. Parts of northern New Mexico are from the 90° bend forested, but the south consists primarily of semiarid that the Rio Grande Invading sea plains. Eastern Texas is bordered by the waters of makes there. The crust of the Gulf of Mexico, and the farmland of this area is southeastern well watered. Western Texas is covered by the Llano Texas is warping, causing the land Estacado and, in the south, much of the land is arid. FARMING AND LAND USE to subside and allowing the Many cattle and sheep ranches have sea to invade. Hurricanes make been set up on the open plateaus. Fruit the situation and vegetables, grown in hothouses worse. and cotton, hav, and wheat are among the major crops. Beef cattle and broiler chickens are raised on huge farms while sheep graze the drier parts of Texas. Extensive irrigation has made farming possible in even the most arid areas. Grand Canyon (BI) The Grand Canyon is a dramatic gorge cut in the rock by the Colorado River. It is about 217 miles long, 418 miles wide, and up to one-mile deep. Carlsbad Caverns (B3) Rio Grande (G5) Carlsbad Caverns are a The Rio Grande, or "Great series of underground caves River" forms all of the FARMING AND LAND USE consisting of a three-level border between Texas chain of limestone chambers and Mexico. It flows from Cattle studded with towering its source high up in the Poultry stalactites and stalagmites Rocky Mountains, to the Sheep Gulf of Mexico They are millions of years old. Cotton LAND USE Fruit and vegetables Irrigated crops Cropland 9% **INDUSTRY** Wheat Other (includin Pasture 5% mountains) 809 Cropland Mining and related industries are one of Desert Forest the most important sources of income in the Southwest. Great deposits of oil lie under Major conurbation about 65% of Texas; copper and coal are mined in Arizona and New Mexico. Defense-related **POPULATION** industries, including NASA have encouraged the development of many high-tech companies in The descendants of Mexican and Spanish settlers Texas - and high-tech is also growing in larger and numerous groups of Native Americans live in cities such as the southwestern states. The great cities of Texas Santa Fe and grew up on income from cattle-ranching and the Phoenix. Lake I oil industry. Much of Arizona and New Mexico Albuquerque is sparsely populated, Beaumont but today Port Arthur Houston Pasadena people are Phoenix moving to Galveston these states El Paso to escape the Bay Cit Corpus Christi cold winters Mexico 5 Port O'Connor elsewhere. STRUCTURE OF INDUSTRY INDUSTRY URBAN/RURAL POPULATION DIVISION Pheonix 4.7% Houston 6.8% Finance Aerospace INHABITANTS Car manufacturing High-tech PER SQ MILE Research and development Chemicals 4 1% Engineering Tourism and cities 62.4% More than 130 Food processing Major industrial 65-130 SCALE BAR Rural Mining center / area Less than 65 0 km Oil and gas Major road Major city Defense Manufacturing 19% 100

US: THE MOUNTAIN STATES

COLORADO, IDAHO, MONTANA, NEVADA, UTAH, WYOMING

These states are home to some of the nation's most fantastic landscapes: endless treeless plains, craggy peaks, incredible desert landforms, and the salt flats of Utah. Although this was one of the last regions of the US to be settled, great mineral reserves have been exploited here in recent years, and new industries have grown up in some of the larger cities. Utah is the headquarters of the Mormon religion.

POPULATION Colorado, with the growing city

of Denver, is the most populous of the mountain states. In other states, people have settled close to sources of water such as Great Salt Lake in Utah. Many towns have less

than 10,000 people and are far apart.

URBAN/RURAL POPULATION DIVISION

Other towns

Yellowstone

Yellowstone

(D 3)

times the number of high mountains

found in the Swiss Alps.

National Park

Las Vegas 4.3%

Colorado

Springs 3%

population

INDUSTRY

STRUCTURE

Services 80%

Manufacturing

Rich mineral reserves, including coal, oil, and gas, are mined throughout the region and forests are a source of good-quality

timber. In the larger cities of Colorado and Utah, growing industries include high-tech computer firms. Many tourists are drawn to this region to ski in the resorts of Colorado and to explore the wilderness.

Chemicals

Textiles

Coal

Mining

Tourism

Oil and gas

Food processing

Timber processing Gambling High-tech

Major industrial

center / area

Major road



Dam was built across the

Colorado River.

Las Vegas

INHABITANTS PER SQ MILE

65-130

More than 130

Less than 65

Major city

Continental Divide

From this watershed, crossing the Lewis Range,

rivers flow in different directions across North

America. Some flow east to Hudson Bay, some

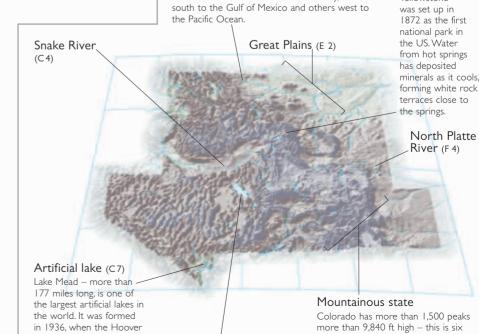
THE LANDSCAPE

The great Rocky Mountains and many smaller mountain ranges cover almost all of this region. Only eastern Montana is not mountainous. Here western parts of the Great Plains rise to meet the mountains. Parts of the southern mountain states are very arid with spectacular scenery, including blocklike mesas, formed by erosion.

FARMING AND LAND USE

In the southern mountain states, cattle ranching is the main form of farming. Wheat and corn are grown in the eastern states, and the fertile soils of the Snake River valley in Idaho produce

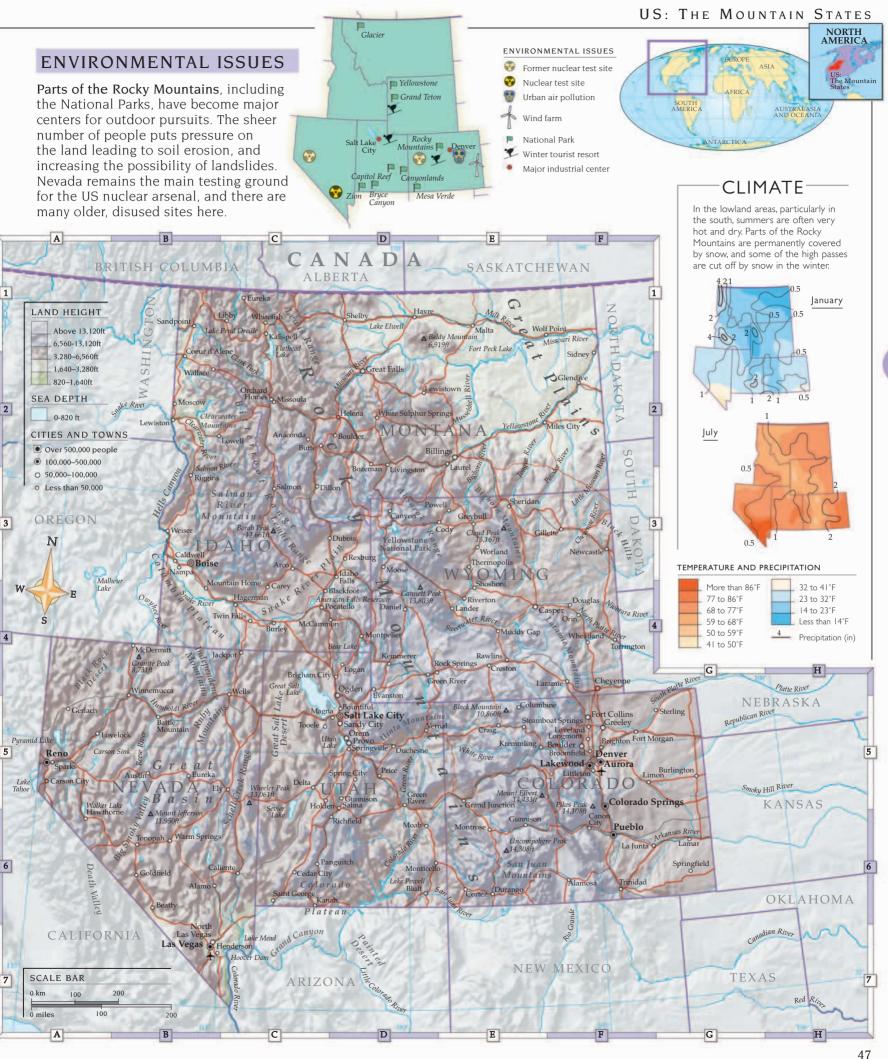
large crops of potatoes and many other vegetables. The northern states have many large commercial forests.



Great Salt Lake (C5)



Las Vegas



US: THE PACIFIC STATES

CALIFORNIA, OREGON, WASHINGTON

The earliest European visitors to the West Coast were fur-trappers and miners, but the Gold Rush of 1849 brought in the first major wave of settlers. Drawn by tales of the beautiful scenery, pleasant climate, and fertile valleys, more people arrived on the newly built railroads. People from all over the world are still moving into this region, seeking jobs in the dynamic economy and the famous laid-back lifestyle.

ENVIRONMENTAL ISSUES

Some of the great national parks of the US, including Yosemite and Sequoia, are found here. The immense numbers of visitors put great pressure on the landscape. Water is in short supply in large parts of California, and desertification, caused by overintense farming methods, is a problem. Wind farms have been set up on the hills above the San Joaquin valley to provide alternative energy.

the record for the highest

temperature ever recorded

in the US. at 134° F.

INDUSTRY

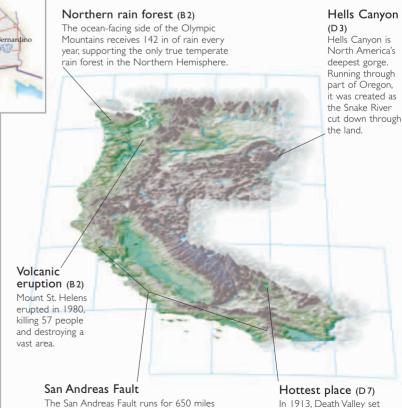
The Pacific States are the center of the hightech computer industry with Silicon Valley between San Francisco and San Jose, and electronics industries growing in Portland and Seattle. Other major industries include research and development for the defense industry, filmmaking in Los Angeles, food processing and lumbering. Tourism is well developed throughout the Pacific States.



THE LANDSCAPE

PCrater Lake

The Coast and Cascade ranges run north—south through Oregon and Washington while further south, the high Sierra Nevada run along California's eastern fringes. Two broad valleys, the Sacramento and San Joaquin, are known as the Central Valley, and form a trough beneath the Sierra Nevada. The south is extremely dry — Death Valley is the hottest place in the entire US.



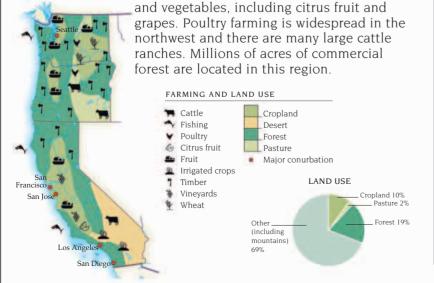
underneath California. When both sides

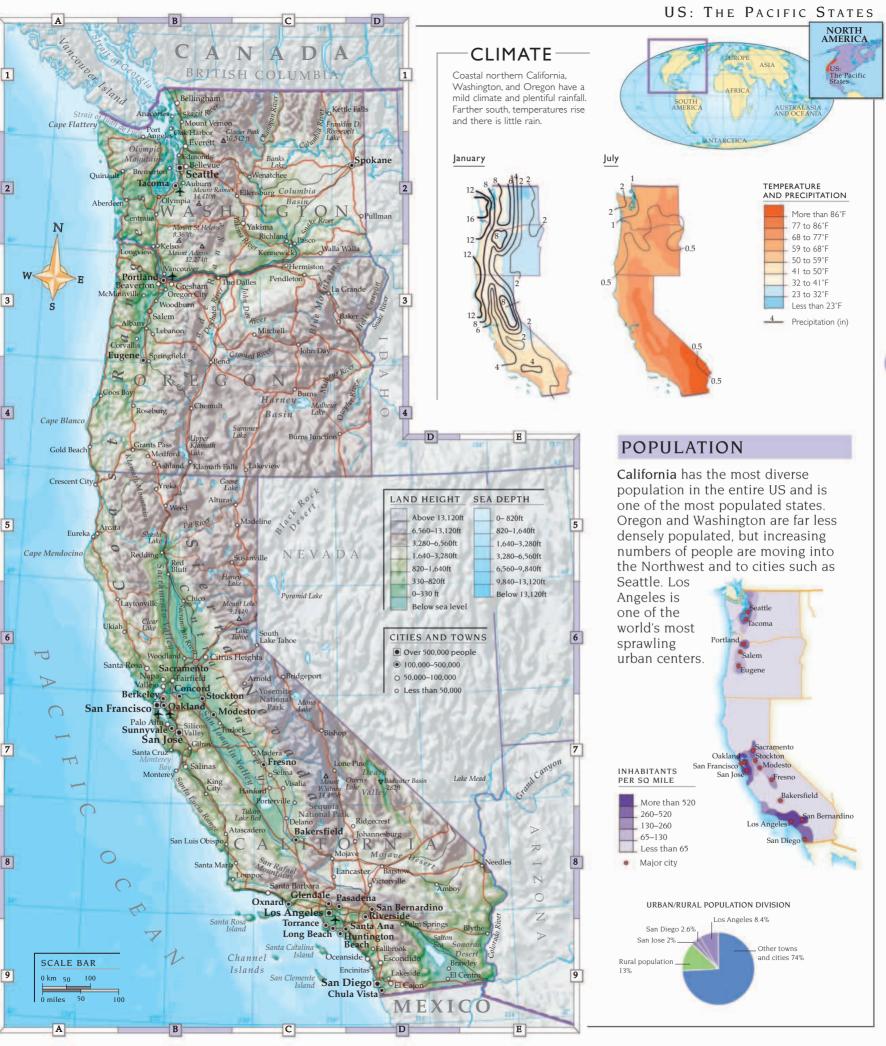
of the fault move at different rates,

tremors and earthquakes result.

FARMING AND LAND USE

California's Central Valley and the river valleys of Washington and Oregon provide ideal conditions for a wide range of fruit





Exxon Valdez 1993

ALASKA

A magnificent land of mountains, forests, and snowfields, with rich oil and mineral reserves, Alaska was purchased from Russia for \$1 million in 1867. Almost 650,000 people live here, many drawn by the oil industry. Some of Alaska's native peoples like the Aleuts and Inupiaq still live by hunting and fishing.

ENVIRONMENTAL ISSUES

Much of northern Alaska is covered by permafrost (permanently frozen ground). The Trans-Alaska Pipeline, which brings oil from Prudhoe Bay to Valdez, was built

above ground to stop the permafrost melting. A number of major oil Prudhoe Bay spills have threatened Alaska's unique envrionment.



INDUSTRY



The Alaskan economy is dominated by the oil business. The oilfields of Alaska are of a similar size to those in the Persian Gulf. Minerals including gold are mined in the mountains, and paper products are exported to countries on the Pacific Rim.

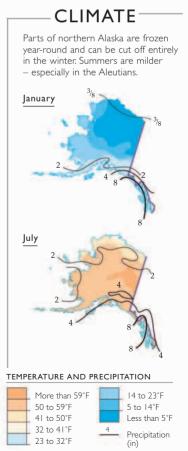
INDUSTRY Chemicals Mining Oil and gas Timber processing Major industrial center Major road

FARMING AND LAND USE

Salmon are caught in great numbers in the waters of the north Pacific. Much of the state – more than 22.2 million acres – is covered by forest which is commercially lumbered. Most food must be imported, although fruit is grown in hothouses near the larger cities.

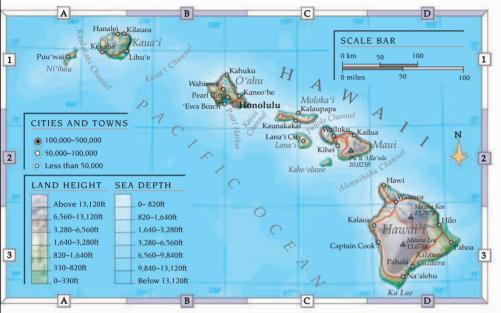






Hawaii

Hawaii is the 50th US state. It lies far from the mainland in the middle of the Pacific Ocean. The island chain was formed by volcanoes, only one of which, Mauna Loa, remains active today. The islands' indigenous peoples are Polynesians, but continued immigration means that they now make up only 9% of the population.



INDUSTRY AND LAND USE

Tourism is the most important industry in Hawaii, accounting for one in every three jobs. The naval base at Pearl Harbor also provides jobs for numerous people. The many large plantations grow sugarcane, bananas, and tropical fruit for export.



ENVIRONMENTAL ISSUES

Climatic occurrences, combined with the growth of tourism, have an adverse effect on the indigenous flora and fauna. Eruptions from Mauna Loa are an accepted risk for the population.



US Overseas Territories

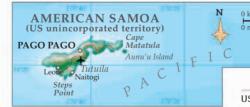
America's overseas territories have

traditionally been seen as strategically or economically important. In most cases, the local population has been given a say in deciding whether it wants to govern itself. A US commonwealth territory has a greater level of independence than a US unincorporated or external territory. The US has 13 overseas territories: the four largest are shown here.





AMERICAN SAMOA



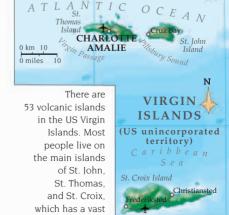
American Samoa consists of five volcanic islands and two coral atolls in the south Pacific. The people are among the last true Polynesians.

GUAM



The US military base that covers one-third of the island makes Guam strategically important to the US. The Chamorro, the indigenous people, are in charge of political and social life.

US VIRGIN ISLANDS



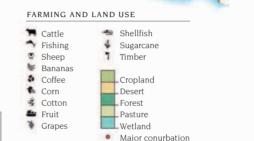
oil refinery

MEXICO

Mexico is a large country with a rich mixture of traditions and cultures. The ancient civilization of the Aztecs that flourished here was crushed by Spanish invaders in the 16th century. Spain ruled Mexico until its independence in 1836, and today the country has the world's largest Spanish-speaking population. Mexico is mostly dry and mountainous, and farmland is limited, so the country has to import most of the basic foods it needs to feed its people.

FARMING AND LAND USE

Most of the land suitable for farming is planted with corn – a big part of the Mexican diet. Along the Gulf coast coffee, sugarcane, and cotton are grown on plantations for export. Parts of the dry north are irrigrated to grow cotton, but most of the land is taken up by large cattle ranches. Fishing, especially for shellfish such as lobster



In coastal areas.

LAND USE

Cropland 14% _____

Other 15% ____ Pasture 42%

and shrimp is important



Much of Mexico is made up of a high plateau. The

climate there is very dry and varies between true desert in the north, and semidesert farther south. The plateau is separated from the coastal plains by two long, rugged mountain chains: the Eastern Sierra Madre and the Western Sierra Madre. Toward the south, the mountain ranges join, meeting in the region of high volcanic peaks that surround Mexico City.

The Rio Grande (D2)

This river flows from Colorado in the US and forms much of Mexico's northern border. It crosses a vast arid area on its way to the Gulf of Mexico.

Western Sierra Madre (C3)

Earthquakes and volcanoes

Volcanic activity is common in Mexico. Popocatépetl (F5) and Volcán El Chichónal (G5) have erupted recently, and Mexico City was hit by a devastating earthquake in 1985.

Yucatan Peninsula (H4)

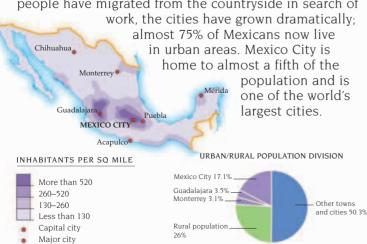
The Yucatan Peninsula is a low, wide tableland, formed by layers of limestone. Limestone absorbs water, so there are few rivers on the peninsula, and the tropical rainforests found there are fed mainly by streams and underground water.

Baja (Lower) California (B3)

This long and very dry peninsula separates the Gulf of California from the Pacific Ocean. The Gulf was formed after the last Ice Age, when the sea rose to flood a major rift valley.

POPULATION

Most of the north is sparsely populated due to the hot, dry climate and lack of cultivable farmland. As people have migrated from the countryside in search of



ENVIRONMENTAL ISSUES

Eastern Sierra Madre (D5).

Fast, unplanned growth has led to poor sanitation and water supplies in Mexico City, while the wall of mountains that surrounds the city traps pollution from cars and factories, giving it some of the world's worst air pollution. Much of Mexico's tropical rainforest has been felled, leading to increased







CENTRAL AMERICA

BELIZE, COSTA RICA, EL SALVADOR, GUATEMALA, HONDURAS, NICARAGUA, PANAMA

Central America lies on a narrow bridge of land which links North and South America. All the countries here, except Belize, were once governed by Spain. Today, most of their people are *mestizos* – a mix of the original Maya Indian inhabitants and Spanish settlers. The hot, steamy climate is ideal for growing tropical crops, such as coffee and bananas, which are exported worldwide.

FARMING AND LAND USE

About half of all the agricultural products grown here are exported. The Pacific coast has fertile, well-watered land suitable for growing cotton and sugarcane. In the central highlands are big coffee plantations and ranches where beef cattle are raised. Bananas grow well along the humid Caribbean coastal plain, and shrimp and lobster are caught offshore.

FARMING AND LAND USE Cattle Shellfish Bananas & Coffee Corn LAND USE Cotton Sugarcane Pasture 279 Forest 35% Timber Cropland Forest Cropland Pasture Major conurbation

ENVIRONMENTAL ISSUES

Central America's rain forests are rapidly being cut down for timber and to make way for farmland and land for building. Over half of Guatemala's forests have been felled, mostly in the last 30 years. The situation is also bleak in Honduras,

situation is also bleak in Honduras,

Costa Rica, and Nicaragua. Central

America has a line of volcanoes
running through the region

Volcán Tacaná 1986
Volcán de Izaleo

Volcán de Izaleo
Volcán Cerro Negro 1995
Volcán Concepcion 1986

Volcán Rincon
de la Vieja 1998
Volcán Arenal 1998, 2000

Volcán Arenal 1998, 2000
Path of recent,
devastating
hurricane

POPULATION

Central America's people live mainly in the valleys of the central highlands or along the Pacific coastal plains. Despite the threat of volcanic eruptions and earthquakes, towns and cities were developed in these areas because of the fertile volcanic soils found there. Around half the population still lives in rural areas, mostly in small villages or remote settlements, but the cities have expanded rapidly and overcrowding

has become a serious problem.

INHABITANTS PER SQ MILE

More than 130
52–130
Less than 52

URBAN/RURAL POPULATION DIVISION
San Salvador 3.3%
Tegucigalpa
3.2%

Other towns and cities
37%

Other towns and cities
37%

THE LANDSCAPE

Jacaltenango

The Sierra Madre in the north and the Cordillera Central to the south form a mountainous ridge that stretches down most of Central America. Along the Pacific coast north of Panama is a belt of more than 40 active volcanoes. The mountains are broken by valleys and basins with large, fertile areas of rich, volcanic soil.

Sierra Madre (A3)

Off the coast of Belize is a 180 milelong coral reef – the second longest in the world. Its waters contain spectacular marine life. In places, the reef has become built up into dozens of small sandy islands called cayes.

The Mosquito Coast (E4)

Capital city

Yucatan

EL

The Mosquito Coast is a remote area of tropical rain forests, lagoons, and rivers lined with mangroves. Most of it is uninhabited by humans, but there is a huge variety of animal species, including monkeys and alligators.

Lake Nicaragua (E5)
This large freshwater

lake contains about 400 islands, some of which are active volancoes like Volcán Concepcion. The lake is also home to the world's only freshwater sharks.

Panama Canal (H6)

Cordillera Central (G6)

The Panama Canal links the Atlantic and Pacific oceans along a distance of 51 miles. Half of its route passes through Lake Gatún, a freshwater lake that acts as a reservoir for the canal, providing water to operate the locks.



THE CARIBBEAN

The Caribbean Sea is enclosed by an arc of many hundreds of islands, islets, and offshore reefs that reach from Florida in the US, round to Venezuela in South America. From 1492, Spain, France, Britain, and the Netherlands claimed the islands as colonies. Most of the islands' original inhabitants were wiped out by disease and a wide mixture of peoples – of African, Asian, and European descent – now make up the population. The islands are prone to earthquakes, hurricanes, and volcanic eruptions.

THE LANDSCAPE

The Bahamas

The Bahamas are low-lying islands formed from limestone rock. Their coastlines are fringed by coral reefs, lagoons, and mangrove swamps. Some of the bigger islands are covered by forests.

The islands are formed from two main mountain chains: the Greater Antilles, which are part of a chain running from west to east, and the Lesser Antilles, which run from north to south. The mountains are now almost submerged under the Atlantic Ocean and Caribbean Sea, Only the higher peaks reach above sea level to form islands.

Hispaniola (F4) Two countries, Haiti and the Dominican Republic, occupy the island of Hispaniola. The land is nostly mountainous, broken by fertile valleys Cuba (C3) Cuba is the largest The Lesser Antilles

island in the Antilles. Its landscape is made up of wide, fertile plains with rugged hills and mountains in the southeast.

Most of these small volcanic islands have mountainous interiors. Barbados and Antigua & Barbuda are flatter, with some higher volcanic areas. Montserrat was evacuted in 1997, following volcanic eruptions on the island.

FARMING AND LAND USE

Agriculture is an important source of income, with over half of all produce exported. Many islands have fertile, wellwatered land and large areas are set aside for commercial crops such as sugarcane, tobacco, and coffee. Some islands rely heavily on a single crop; in Dominica, bananas provide





ENVIRONMENTAL ISSUES

The islands of the Caribbean are often under threat from hurricane storm systems which sweep in from the Atlantic Ocean between May and October. The winds can reach speeds of up to 185 miles per hour, devastating everything that lies in their path and causing severe flooding. The storms themselves are enormous: a hurricane can extend outward for 400 miles from its calm center, which is known as the "eve."



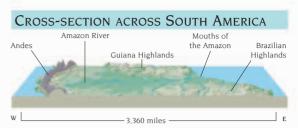
TOURISM

Tourism is thriving in the Caribbean, often bringing more income to the region than other, traditional industries. Long sandy beaches,

clear, warm waters, and the climate are the main attractions. In Cuba Major tourist destinations and the Dominican Republic, tourism is expanding at some of the fastest rates in North America. As hotel complexes and new roads and airports are developed, the environment is often damaged. Local people who work in the industry often receive little of the extra cash brought in by the tourists.

CONTINENTAL SOUTH AMERICA

The towering peaks of the Andes stand high above the western side of South America. They act as a barrier to the sparsely inhabited interior of the continent, which includes the dense rain forest of the Amazon Basin – one of the Earth's last great wildernesses. Most people live on South America's coastal fringes. Brazil is both the largest country and the most populous. Over half the continent's land area and half of its people are found there.



The high peaks of the Andes rise up from a narrow strip of land bordering the Pacific Ocean. East of the Andes, the land flattens into a broad, shallow basin into which the Amazon River flows. To the north are the older Guiana Highlands where rock has been eroded to form flat-topped "table" mountains.





SOUTH AMERICAN GEOGRAPHY

Agriculture is still the most common form of employment in South America. Cattle and cash crops of coffee, cocoa, and, in some places, coca for cocaine, provide the main sources of income. Brazil has the greatest range of industries, followed by Argentina, Venezuela, and Chile. The large coastal cities such as Rio de Janeiro, Lima, and Buenos Aires are where most of the jobs are found. This encourages people to migrate from the country to the city, in search of employment.

South America's mineral resources are highly localized. Few countries have both fossil fuels and metallic ores. The richest oilfields are in the north, especially in

Bauxite

Copper Iron

Lead Silver

Tin

Oil/Gas field

MINERAL RESOURCES

Venezuela. Coal, however, is scarce. When the Andes were formed, heat helped create the many metallic minerals that are mined today.

MINERAL COPPER MINES

Metallic mineral reserves are abundant in the Andes.
Chuquicamata, northern
Chile, is one of the world's largest copper mines.

Narcotics

Below 1 000

1 000-1 999

2,000-2,999

3.000-3.999

4,000-4,999

Above 5,000

Industrial center

Oil and gas

§ Shipbuilding

Textiles

Pharmaceuticals

Printing and publishing

Timber processing

Tobacco processing

INDUSTRY

Brazil is the continent's leading industrial producer, and São Paulo is the major industrial city.

Manufactured products include iron and steel, automobiles, chemicals, textiles, and meat and leather products from the continent's vast cattle herds. In the mountains of Bolivia and Colombia, coca plants are grown to make cocaine, which has created a black market for this illegal drug.

OIL AND GAS



Under the waters of Lake Maracaibo, Venezuela, lie some of South America's biggest oil reserves. Oil exploitation has brought great wealth to Venezuela. The money has helped the country to build new roads and develop other industries.

INDUSTRIAL CENTER



São Paulo, Brazil, is the largest city in South America and a leading industrial center. A wide range of goods is manufactured here, including automobiles, chemicals, textiles, and electronic products. São Paulo is also a leading financial center. Hundreds of people flock to the city daily in search of work.

TRADE AND EXPORTS



The Chilean port of Valparaíso ships many different products out of South America. Trade is growing with Japan and other countries around the Pacific Ocean.



odoro Rivadavia

Cave Horn

CLIMATE

South America has four main climatic regions: tropical, arid, temperate, and the cold climate of the far south. The Amazon Basin, covered by massive rain forests, and the Guiana Highlands have a humid, tropical climate that allows vegetation to flourish. West of the Andes the climate tends to be very dry. Moist air flowing west from the Atlantic Ocean is prevented from reaching the shores of the Pacific Ocean by the Andes, and rain falls before it can pass over the mountains. This creates arid deserts like the Atacama.



Centra

LAND USE AND AGRICULTURE

T Cattle

Pigs

Sheep

Cotton

Coffee Fishing

Oil palms

Peanuts
Rubber

Shellfish Soybeans

Sugarcane
Vineyards
Wheat

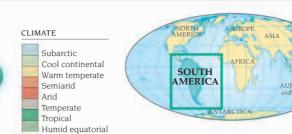
Barren land
Cropland
Desert
Forest
Mountain region
Pasture
Wetland
Major conurbation

Bananas Corn Citrus fruits Coca Cocoa



Highlands

Rio Negro



PATAGONIAN ICEFIELDS



Toward the south of the continent, the climate becomes very cold.
Large expanses of ice, forming glaciers, are found in southern Patagonia and on islands such as Tierra del Fuego at the tip of South America.

LAND USE AND AGRICULTURE

Many plants now found throughout the world originated in South America, like the tomato, potato, and cassava. Today, coffee, cocoa, rubber, soybeans, corn, and sugarcane are widely

cultivated, and grapes are grown in sheltered valleys in the Andes. Much of the Amazon Basin is covered by dense forest and is unsuitable for

cultivation, although some farmers practice "slash and burn" techniques to make land for crops and cattle farming, which destroy ancient forest.

COFFEE



South America, and Brazil in particular, is a major producer of coffee. The plants thrive in the rich red soils of southern Brazil and are grown on huge plantations on the mountain slopes.

LOCAL MARKETS



At traditional markets such as this one in Ecuador, high in the Andes, local people trade fruit, vegetables, and goods such as clothing, rugs, and blankets. Some goods produced by Ecuadorean Indians are now exported worldwide.



Cape Horn

Falkland

Islands

CATTLE



The vast plains of the Pampas, to the west of Buenos Aires, support large herds of cattle. Meat processing and canning is a major industry in Argentina, Paraguay, and Uruguay.

NARCOTICS



Coca, grown in forest clearings in remote mountain areas, is used to make the drug cocaine. Government troops burn any coca plants they discover to discourage production.

Northern South America

BRAZIL. COLOMBIA. ECUADOR. GUYANA. PERU. SURINAME, VENEZUELA

High mountains, rain forests, and hot, grassy plains cover much of northern South America. From the 16th century, after the conquest of the Incas, the western countries were ruled by Spain. Brazil was governed by Portugal, Guyana by Britain, and Suriname by the Dutch. The more recent history of some of these countries has included periods of civil war and military rule. Most are still troubled by widespread poverty.

FARMING AND LAND USE

The variety of climates allows a wide range of crops, including sugarcane, cocoa, and bananas, to be grown for export. Coffee is the most important cash crop; Brazil is the world's leading coffee grower. Cattle are farmed on the plains of Colombia. Venezuela, and southern Brazil. Much of the good farmland is owned by a few rich landowners: many peasant farmers do not have enough land to make a living.

Cropland 6%

(including

15%

Pasture

FARMING AND LAND USE **INDUSTRY** Tishing Important oil reserves are found in Goats Venezuela and parts of the Amazon Sheep **Bananas** Basin; Venezuela is one of the world's Cocoa top oil producers. Brazil's cities have Cotton a wide range of industries including Coffee Nubber Rubber chemicals, clothes and shoes. and textiles. Metallic minerals. particularly iron ore, are mined throughout the area and specially built industrial centers like Ciudad Guayana have been developed to refine them. elo Horis STRUCTURE OF INDUSTRY INDUSTRY Aerospace Oil Chemicals Timber processing Food processing Tourism Iron and steel Major industrial Metal refining Textiles Manufacturing 39% Major road

THE LANDSCAPE

The Andes run down the western side of South America. There are many volcanoes among their peaks, and earthquakes are common. The tropical rain forests surrounding the Amazon River take up most of western Brazil. Huge, dry, flat grasslands called *llanos* cover central Venezuela and part of eastern Colombia.

Angel Falls (D2) Venezuela's Angel Falls is the

world's highest waterfall. Twenty times as high as Niagara Falls, it drops 3,212 ft from a spectacular plateau deep in the Guiana Highlands.

Sugarcane

Cropland

Mountain region

Major conurbation

Timber

Forest

Pasture

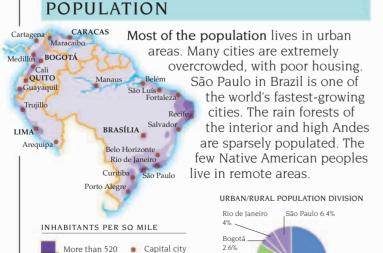
Wetland

Amazon River (D4)

LAND USE

The Amazon is the longest river in South America, and the second longest in the world. It flows over 4 049 miles from the Peruvian Andes to the coast of Brazil, One-fifth of the world's freshwater is carried by the river.

Amazon rain forest



populatio

Major city

Andes (B5) The snow-capped Andes are the longest mountain range on Earth. They stretch 4,500 miles down the whole length of South America.

Other

and cities

Lake Titicaca (C6)

South America's largest lake is the highest navigable lake in the world at 12,500 ft above sea level. It lies across the border between

Peru and Bolivia.

The enormous rain forest

surrounding the Amazon River and its tributaries Pantanal (E6) covers 2,510,000 sq miles, This is the largest area of an area almost as big as wetlands in the world. It spreads Australia. It is estimated across 50,000 sq miles of Brazil. that at least half of all Many hundreds of plant and known living species animal species are found here. are found in the forest.

260-520

130-260

30-130

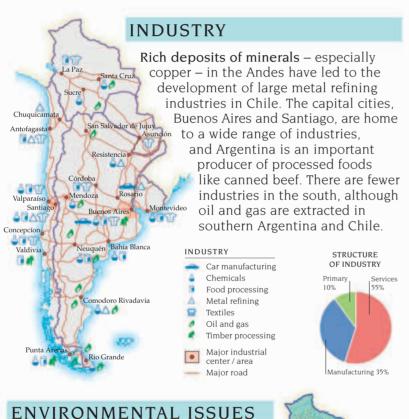
Less than 30



SOUTHERN SOUTH AMERICA

ARGENTINA, BOLIVIA, CHILE, PARAGUAY, URUGUAY

The southern half of South America forms a long, narrow cone, with landscapes ranging from barren desert in the west to frozen glaciers in the far south. The whole area was governed by Spain until the early 19th century, and Spanish is still the main language spoken, although the few remaining Native American groups use their own languages. Most people now live in vast cities such as Buenos Aires and Santiago.



Many of southern South America's rivers are polluted, particularly close to Buenos Aires. The Itaipú Dam on the Paraná River is the world's largest hydroelectric power plant. Deforestation is a persistent problem in Bolivia. Paraguay and northern Argentina with 2,320 sq miles cut down every year. Air quality in Buenos Aires and Santiago is poor, especially in Santiago, which is surrounded by mountains, making it difficult for pollution to escape.





POPULATION I.A PAZ Since the 1950s, there has been a tremendous move from the countryside to the cities. In SUCRE Argentina, Chile, and Uruguay more than 85% of the people are now city dwellers. ASUNCIÓN The capital cities of all these countries have grown enormously – Buenos Aires holds a third of Argentina's population, and two fifths of Uruguay's people live ANTIAGO MONTEVIDEO BUENOS AIRES in the capital, Montevideo. URBAN/RURAL POPULATION DIVISION INHABITANTS PER SO MILE 16.8% More than 260 Santiago 130-260 6.4% 30-130 Montevided

THE LANDSCAPE

Rural population

Other towns

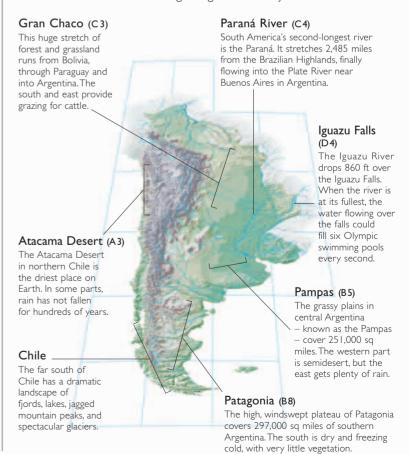
and cities 58%

Less than 30

Capital city

Major city

Southern South America's landscape varies from tropical forest and dry desert in the north to subantarctic conditions in the south. The towering Andes divide Chile from Argentina, East of the Andes lie forests and rolling grasslands. To the west is a thin coastal strip. The wet, windswept, freezing southern tip of the continent has volcanoes alongside glaciers and fjords.

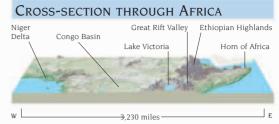




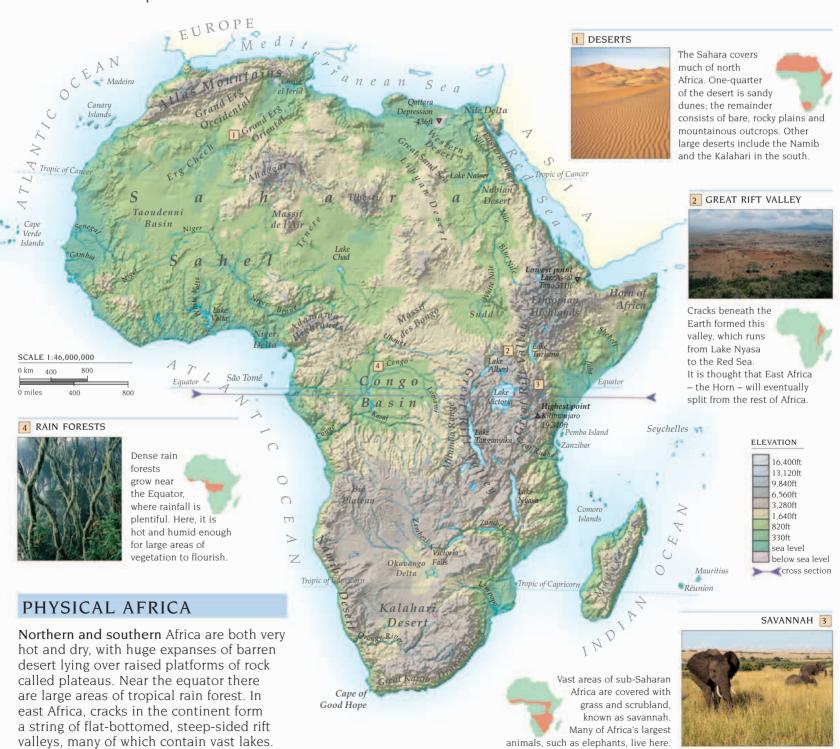
CONTINENTAL AFRICA

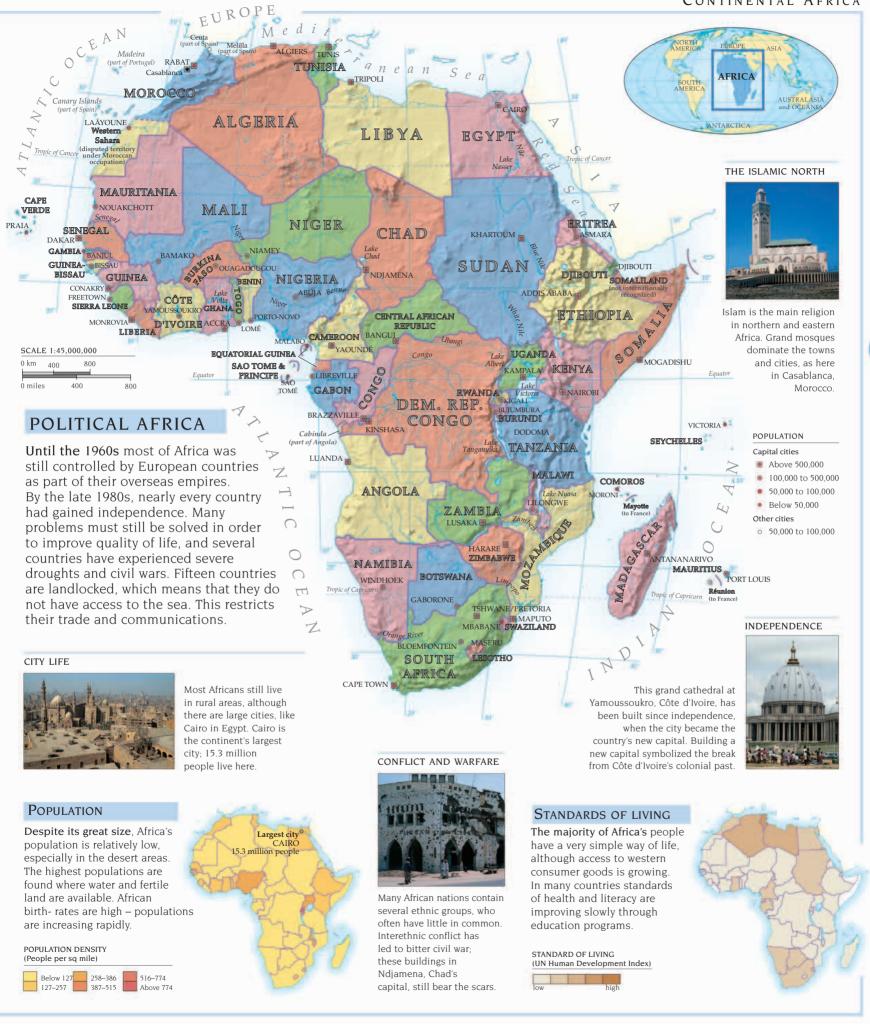
Africa is the second-largest continent in the world.

Its dramatic landscapes include arid deserts, humid rain forests, and the valleys of the east African rift – where humans may have first evolved. Today, there are 53 separate countries in Africa, and its people speak a rich variety of languages. The world's highest temperatures have been recorded in Africa's deserts.



In the west, the Niger River flows into the Atlantic Ocean through the swampy Niger Delta. Farther east is the immense Congo Basin, where the Congo River winds its way through thick rain forests. In the east is the Great Rift Valley and the Ethiopian Highlands. The Horn of Africa is Africa's most easterly point.

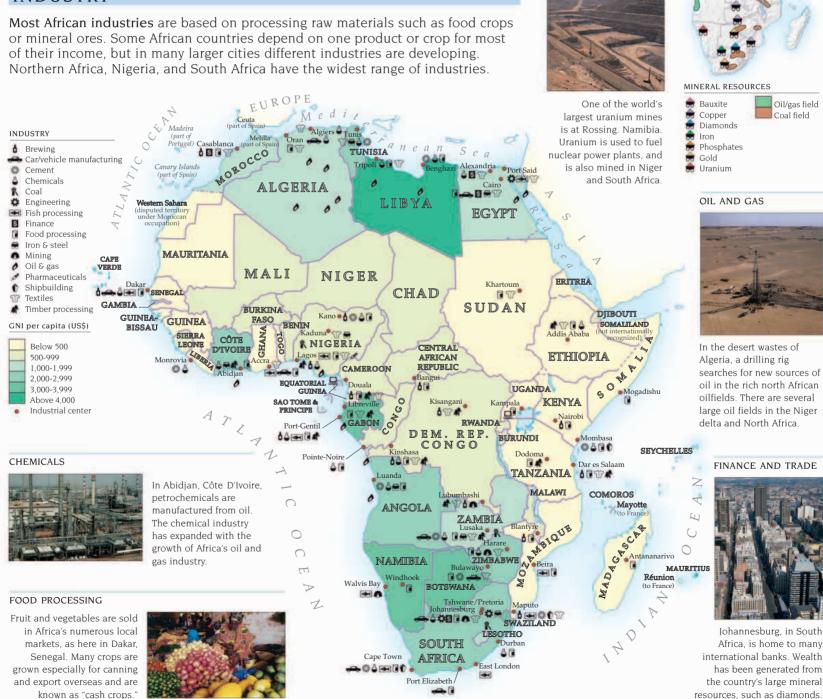




AFRICAN GEOGRAPHY

Africa's massive reserves of minerals, including oil, gold, copper, and diamonds, are among the largest in the world. Mining is a very important industry for many countries and has provided money for growth and development. Many different types of crops can be grown in Africa's wide range of environments. Rubber, bananas, and oil palms are grown for export in the Tropics, and east Africa is especially famous for its tea and coffee.

INDUSTRY



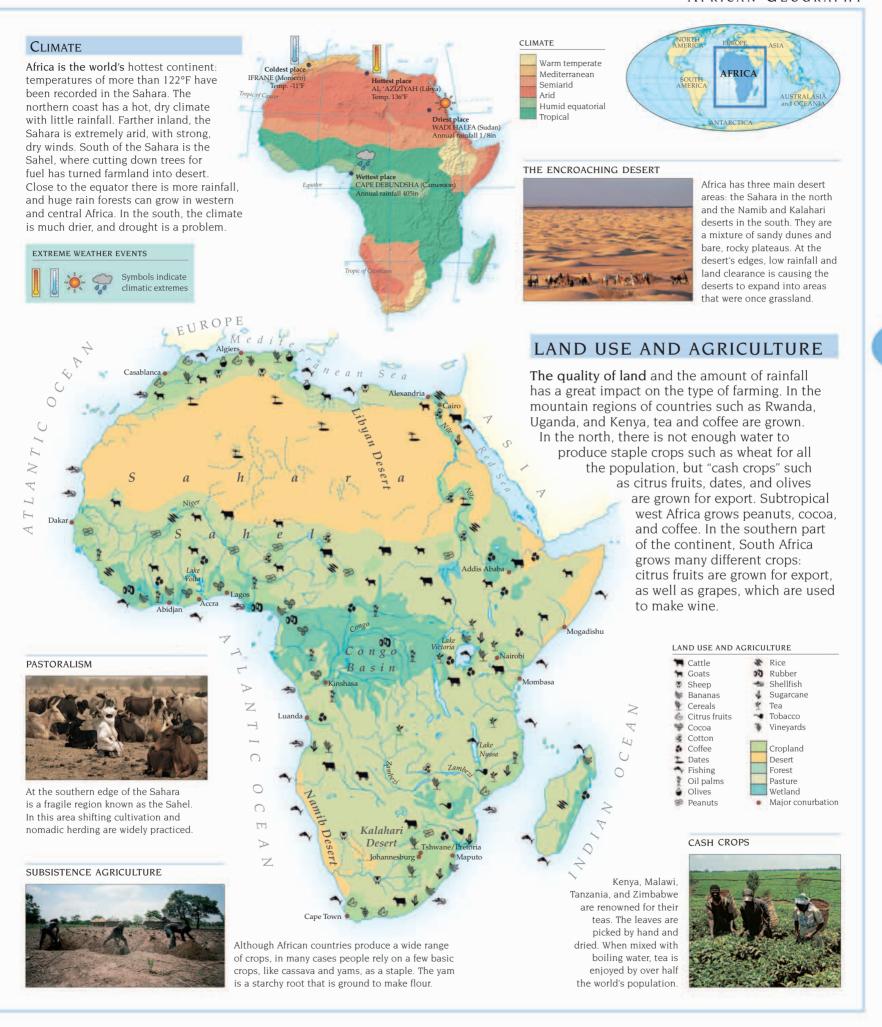
MINERAL RESOURCES

and Nigeria.

MINING

The southern countries, in particular South Africa, have large reserves of diamonds, gold, uranium, and copper. The large copper deposits in Dem. Rep. Congo and Zambia are known as the "copper belt." Oil and

gas are extracted in Algeria, Angola, Egypt, Libva,



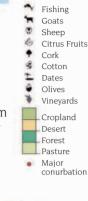
NORTH AFRICA

ALGERIA, EGYPT, LIBYA, MOROCCO, TUNISIA.

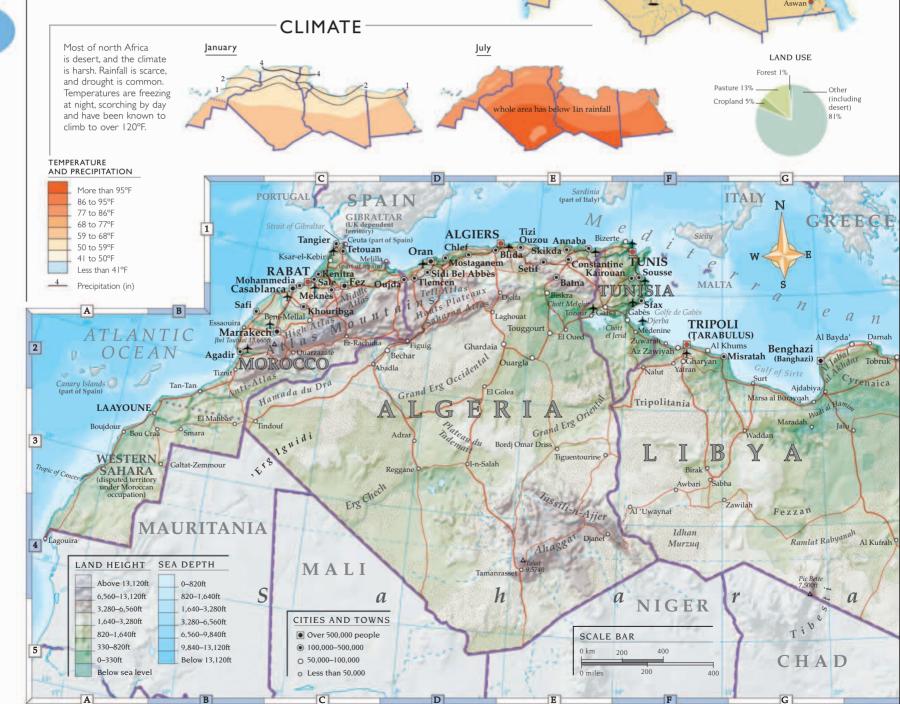
Sandwiched between the Mediterranean and the Sahara, North Africa has a history dating back to the dawn of civilization. About 6,000 years ago, settlements were established along the banks of the Nile River. Since then, waves of settlers, including Romans, Arabs, and Turks, have brought a mix of different cultures to the area. In the 19th century, Spain, France, and Britain claimed colonies in the region, but today North Africa is independent, although Western Sahara is occupied by Morocco.

Most farming in North Africa is restricted to the fertile Mediterranean coastal strip, and the banks of the Nile where it relies heavily on irrigation. In spite of these seemingly inhospitable conditions, the region is a major producer of dates, which grow in desert oases, and of cork, made from the bark of the cork oak tree. A wide variety of other crops is also grown, including grapes, olives, and cotton.

FARMING AND LAND USE



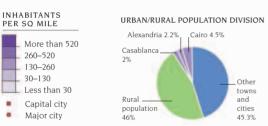
FARMING AND LAND USE



POPULATION

The majority of the population, and all of the big towns and cities, are found on the coastal plains, or along the banks of the Nile – about 99% of Egyptians live along the river. Egypt's capital, Cairo, is Africa's largest city, with over 15 million people. Western Sahara and the southern portions of Egypt. Algeria, and Libya are sparsely populated by Tuareg nomads who roam the desert.

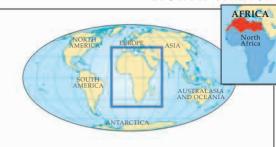






THE LANDSCAPE

The parched rocks and endless sandy expanses of the Sahara occupy much of North Africa. The only major river here is the Nile, with a delta that extends into the Mediterranean Sea. The old. eroded Atlas Mountains are the highest mountain range.



Nile Delta (12)

Winds blowing across the Sahara cause the sand to build up into dunes which can reach heights of up to 1,411 ft.

As the Nile River nears the Mediterranean, it separates into many small streams, which flow over a fertile triangle of land. Mud and rock carried by the river and deposited in the delta have formed new land.

Red Sea (13)

The Red Sea may get its name from red algae that live on the sea floor and occasionally make the water appear red during algae blooms.

Atlas Mountains (C2)

Sand dunes

The Atlas Mountains are made up of a number of different ranges – the Anti-Atlas, High Atlas, Middle Atlas, Tell Atlas, and Saharan Atlas. They stretch some 1,400 miles from the north of Tunisia to the Atlantic coast of Morocco

Oattara Depression (13)

In the northwest of Egypt is a huge desert depression 200 miles long and 75 miles wide. Its floor, part of which is 440 ft below sea level, is covered with sand, brackish ponds and salt marshes.

Nile River (13)

The world's longest river flows 4.160 miles to the Mediterranean Sea. The system of rivers and lakes that flow into the Nile drain some 1,100,000 sq miles - about 10% of the entire African continent.

STRUCTURE

OF INDUSTRY

44%

INDUSTRY

Oil and natural gas have brought wealth to the area, particularly to Libva, which has enough oil reserves to last into the middle of this century. Textile manufacture is widespread – North Africa is famous for its exotic cloths and rugs. Several large chemical

refineries and steel plants have been established along the coast, especially in the major industrial cities like Alexandria and Cairo in Egypt.

INDUSTRY

- Chemicals Food processing Iron and steel Textiles Oil and gas
- Tourism Major industrial center / area
 - Major road

Manufacturing 40%

ENVIRONMENTAL ISSUES

Droughts, overgrazing, and the stripping of vegetation for firewood and animal food have caused the Sahara to expand northward. This has reduced the already limited amount of land available for farming. The risk of desertification is acute in many coastal areas. North Africa is very dry, and there are severe droughts periodically. Many of the larger cities like Alexandria and Cairo

have very poor air quality. ENVIRONMENTAL ISSUES Drought Existing desert Risk of desertification Urban air Severe risk of desertification pollution Unaffected area Major industrial center



WEST AFRICA

BENIN, BURKINA FASO, CAMEROON, CENTRAL AFRICAN REPUBLIC, CHAD, CÔTE D'IVOIRE, EQUATORIAL GUINEA, GAMBIA, GHANA, GUINEA, GUINEA-BISSAU, LIBERIA, MALI, MAURITANIA, NIGER, NIGERIA, SAO TOME & PRINCIPE, SENEGAL, SIERRA LEONE, TOGO

West Africa's varied climate and agricultural and mineral wealth have provided the foundation for some of Africa's greatest civilizations, like those of the Malinke and Asante people. The area remains ethnically and culturally diverse today as well as densely populated. Nigeria is the most populous country in Africa. Since independence from European colonial powers in the 1960s, political instability has been a reality for many countries here.

INDUSTRY

Chemicals

Textiles Timber

Mining

Food processing

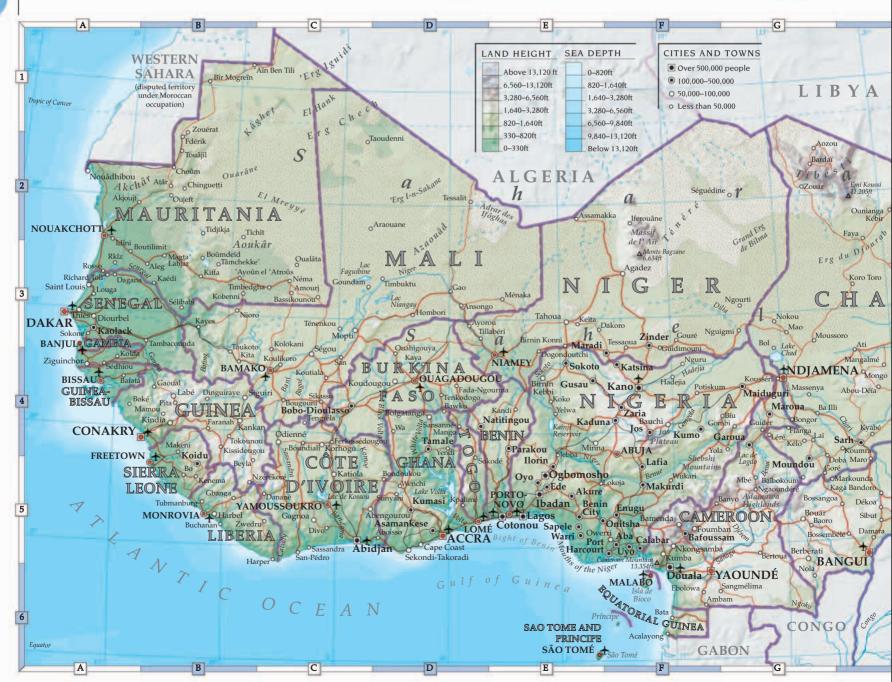
Agricultural products still form the basis of most economies in West Africa. Food processing is widespread — oil palms and groundnuts are processed for their valuable vegetable oils. Oil and gas are found off the coast of Côte d'Ivoire and around the Niger delta, where a large chemical industry has developed.

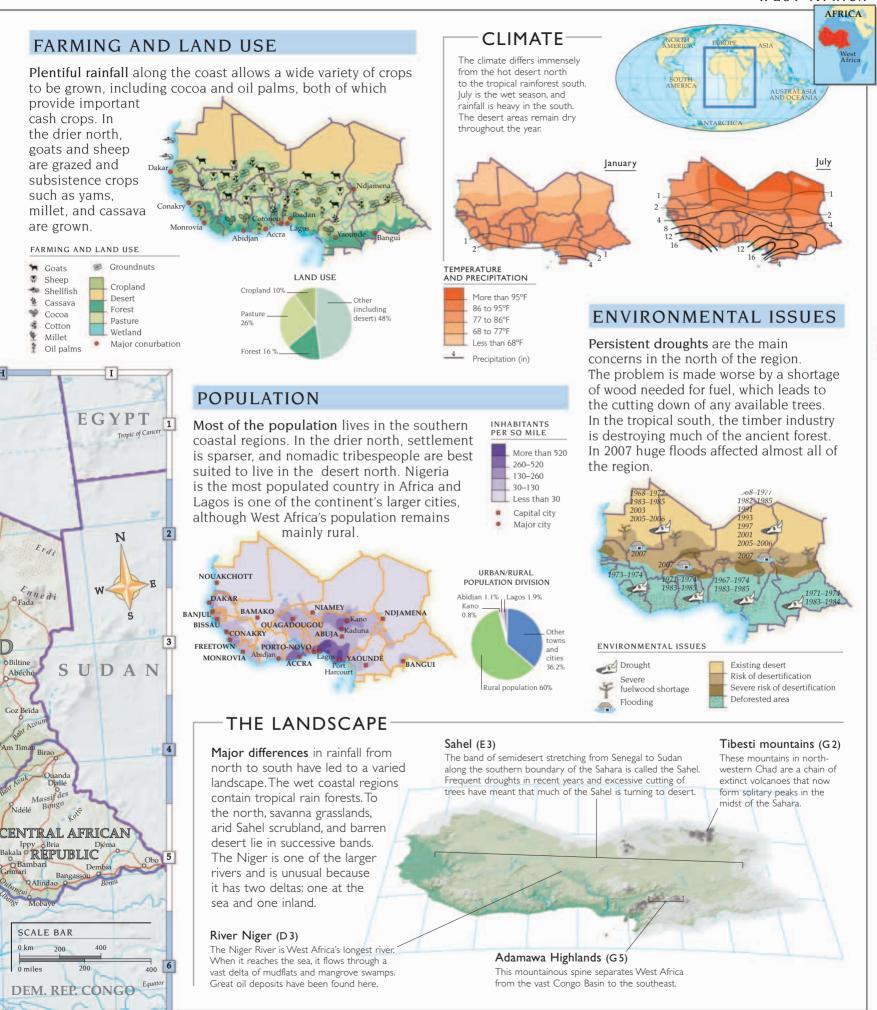
STRUCTURE OF INDUSTRY

Oil and gas

Major road

Major industrial





EAST AFRICA

BURUNDI, DIIBOUTI, ERITREA, ETHIOPIA, KENYA, RWANDA, SOMALIA, SUDAN, TANZANIA, UGANDA

Much of East Africa is covered by long grass, scrub, and scattered trees, called savanna. This land is grazed by both domestic animals and a great variety of wild animals including lions, giraffes and elephants. The east of the region is known as the Horn of Africa, because it is shaped like an animal horn. Sudan, and the other countries there have recently been devastated by civil wars, and periods of drought and famine. In contrast, Kenya in the south is more stable but still has to battle with corruption.

FARMING AND LAND USE Much of the north and east is too dry for farming, but in Sudan, cotton is grown on land irrigated by the Nile River. The Lake Victoria basin and rich volcanic soils of the highlands in Kenya, Uganda, and Tanzania support staple food crops, and those grown for export. such as tea and coffee. Kenya also grows high-quality vegetables, like mangetout, and exports them by air to supermarkets abroad. Sheep, goats. and cattle are herded on the savanna. FARMING AND LAND USE The Cattle # Sisal ↑ Fishing * Tea LAND USE ₩ Goats Cropland Sheep Desert Dacture 40% Bananas Forest 30 Coffee Other Pasture 2 Cotton Wetland 1 Dates Major conurbation Market gardening Sugarcane

INDUSTRY

East Africa has few mineral resources, and industry is mainly based on processing raw materials.

Coffee, tea, sugarcane, and sisal, are harvested and processed before being exported. Textile production is widespread, but is only on a small scale. Tourism is increasingly important in Kenya and Tanzania; each year, many thousands of people visit the wildlife reserves there

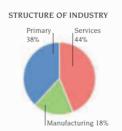
THE LANDSCAPE

The south of East Africa is savanna grassland, broken by the rugged mountains - some of them active volcanoes - and large fresh and saltwater lakes that make up part of the Great Rift Valley. The Nile River has its source here, flowing through Lakes Victoria, Kyoga, and Albert as it takes much-needed water to the arid desert areas in the north.

Great Rift Valley (D6) (D4)

INDUSTRY Cement manufacturing Chemicals Food processing Textiles Tourism Major industrial

ENVIRONMENTAL ISSUES



Sudd (B4)

The north of Sudan is rocky desert but in the south the waters of the White Nile run into a swampy area called the Sudd where much of its water The Great Rift Valley is like a deep scar running 4,300 miles from north to south through East Africa. It has been formed by the movements of two of the Earth's plates over millions of years. If these movements continue, East Africa may eventually become an island, separated by the ocean from the rest of the continent.

disperses and evaporates. Lake Victoria (C5) Lake Victoria is Africa's largest lake

Juba River (E5) This river rises in the highlands of

Ethiopia and flows some 750 miles southwards to the Indian Ocean. It, and the Shebeli River, which joins it about 19 miles from the coast, are the only permanent rivers in Somalia

1984–1985

1999-2000

1973–1974 2004-2005 1991–1992 2007–2009

need for increasing amounts of land for 1973–1975 farming. This, in addition to the need for firewood, has led to tree cover being stripped, allowing the soil to be washed or blown away. Over the past 30 years, East Africa has been stricken by many catastrophic droughts that have made desertification worse, and brought much human suffering.

and the second largest freshwater lake in the world. It lies on the equator, between Kenya, Tanzania and Uganda, and covers 26,560 sq miles. Its only outlet is the Nile River in the north.

Kilimanjaro (D6) This old volcano, made up

of alternating layers of lava and ash, is Africa's highest mountain, rising to 19,341 ft. Although it lies only three degrees from the Equator, its peak is permanently covered with snow.

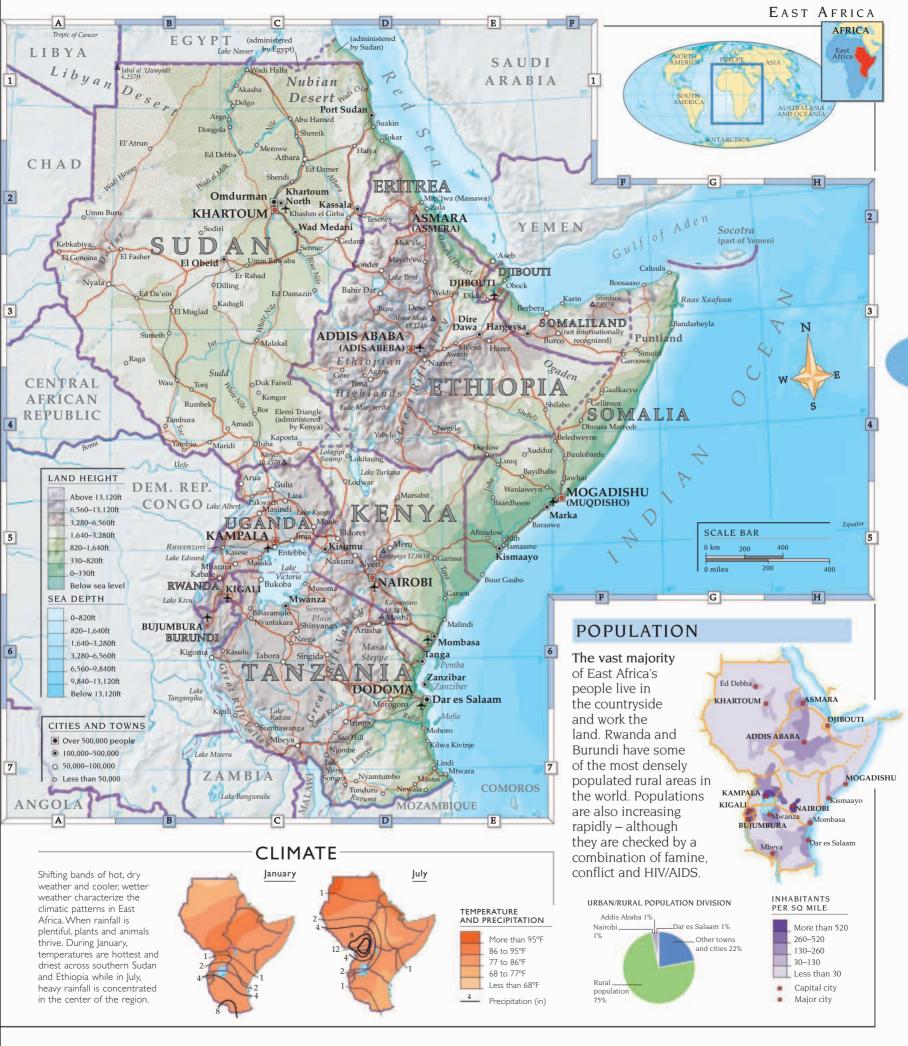
ENVIRONMENTAL ISSUES

Major road

Rapid population growth has created a



Existing desert Risk of desertification Severe risk of desertification



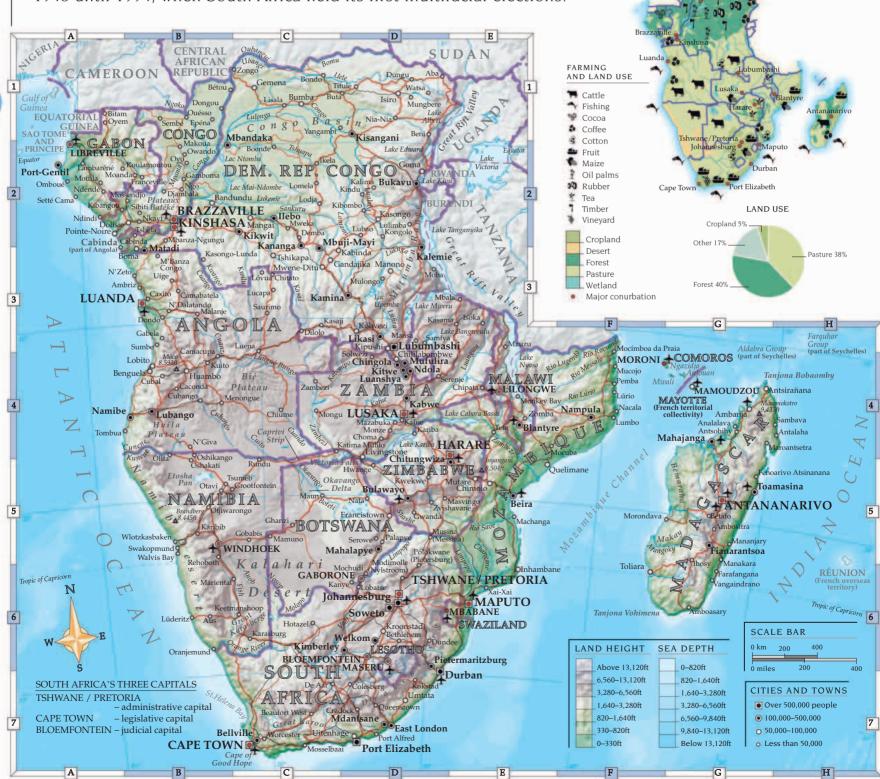
SOUTHERN AFRICA

ANGOLA, BOTSWANA, COMOROS, CONGO, DEM. REP. CONGO, GABON, LESOTHO, MADAGASCAR, MALAWI, MOZAMBIQUE, NAMIBIA, SOUTH AFRICA, SWAZILAND, ZAMBIA, ZIMBABWE

Southern Africa contains the richest deposits of valuable minerals on the continent. South Africa is the wealthiest and most industrialized country in the region. Most of the surrounding countries rely on it for trade and work. Racial segregation under apartheid operated from 1948 until 1994, when South Africa held its first multiracial elections.

FARMING AND LAND USE

Most of southern Africa's farmers grow just enough food to feed their families, although much of the farmland is in the hands of a few wealthy landowners. In the tropical north, oil palms and rubber are grown on large commercial plantations. Fruits are cultivated in the south, and tea and coffee are important in the east. Cattle farming is widespread across the dry grasslands.



During January, temperatures are highest in the Kalahari Desert and rainfall is plentiful in the center of southern Africa. July is cooler and drier, with rainfall concentrated in the north of Dem. Rep. Congo. The Atlantic coast of Namibia receives little rain all year round.

TEMPERATURE AND PRECIPITATION

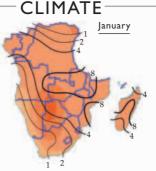


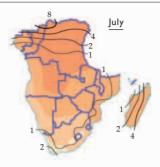


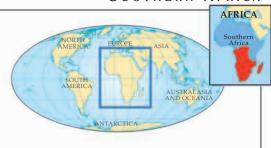
ENVIRONMENTAL ISSUES

The immense rain forests of the Congo Basin in the north

remain relatively untouched, but deforestation is beginning







INDUSTRY

Southern Africa has extraordinary mineral resources. Angola has large deposits

> Angola, Botswana, Namibia, and South Africa. Copper is mined in the region known as the "copper belt," that runs from Dem. Rep. Congo into Zambia. South Africa is the world's

largest gold producer. Manufacturing, such as fruit canning and steel production, is most developed in South Africa.

of oil, and diamonds are found in

Drought. Severe firewood shortage Flooding

to occur at its edges, with much more

forest due to be cleared in the future.

Large parts of Madagascar have also

occasional drought and the clearing of

cause soil loss.

bushlands for firewood can

been deforested. Farther south,

ENVIRONMENTAL ISSUES Existing desert Risk of desertification Severe risk of desertification Deforested area Remaining tropical forest

ort Elizabeth A PSTP OF INDUSTRY Car manufacturing

STRUCTURE OF INDUSTRY Services Manufacturing 31%

THE LANDSCAPE

Southern Africa stretches from just north of the equator down to the southern tip of the continent. It is an area with an extremely varied climate and geography. In the north are the tropical rain forests of the Congo Basin, while arid desert covers much of the southwest. The eastern regions are mostly grasslands, with lush vegetation found on the tropical coast of Mozambique.

1979-1985 1991-1992

2000

Congo Basin (C I)

The Congo River is Africa's second longest river, flowing in an arc through the dense tropical forests of the Congo Basin before emptying into the Atlantic Ocean.

Namib Desert (B5)

of the world's driest deserts. The only water it receives is from mists that roll in from the sea Where the desert meets the coast is known as the Skeleton Coast because of sailors who were shipwrecked

Victoria Falls (D5)

On its way to the Indian Ocean, the Zambezi River plunges over a 420 ft cliff, into a narrow chasm. The resultant spray rises up to 1,600 ft, and the thunder of the water can be heard up to 25 miles away.

Madagascar (G5)

The world's fourth largest island lies in isolation 155 miles off the east coast of southern Africa. It became separated from the African continent 135 million years ago, and its plant and animal life are unique. The rich biodiversity of the rain forests is being threatened by uncontrolled lumbering.

POPULATION

Textiles

Chemicals

Engineering Food processing

Iron and steel

Metal refining

The population is still mostly rural with two thirds of southern Africa's residents living in the

Oil and gas

Timber processing

Major industrial

Major road

Mining

Tourism

countryside. Dense tropical rain forest in the north and arid desert in the southwest have kept habitation to a bare minimum. Malawi is the most densely populated





The Namib is one and died there

Okavango Delta (C5)

The Okavango River terminates in the Kalahari Desert, forming a vast, swampy inland delta.

The Drakensberg are a chain of mountains that lie at the edge of a broad plateau that has tilted because of the movement of the Earth's plates. Rivers have carved through the high mountains, creating dramatic gorges and waterfalls.

Drakensberg (D4)

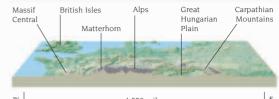
77

CONTINENTAL EUROPE

Europe is the world's second smallest continent, occupying the western tip of the vast Eurasian landmass. To the north and west are old highlands, with the high peaks of the Alps in the south. Most people live on the densely populated North European Plain, which extends from southern

England, through northern France, across Germany into Russia.

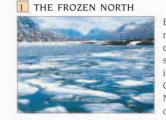
Cross-section through Europe



In the west, the land rises up from the Atlantic coast toward the Massif Central in France, and the high peaks of the Alps. Between the Alps and the Carpathian Mountains is the Great Hungarian Plain, where the Danube River flows on its way to the Black Sea.

PHYSICAL EUROPE

The ancient mountains of northwest Europe were scoured and smoothed by glaciers in the last Ice Age. The Alps are newer and more jagged – pushed up when Africa collided with Europe. In between is the North European Plain, where thick layers of fertile soils allow many different crops to be grown.



Novaya

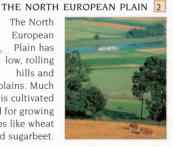
7.emlua

vears ago. The Matterhorn

is one of the most dramatic peaks.

Europe's northern coastline stretches deep into the Arctic Circle. Here in Norway, icebergs drift into the deep, wide-bottomed fjords.

The North European Plain has low, rolling hills and plains. Much of the area is cultivated and used for growing crops like wheat and sugarbeet.



3 ANCIENT HIGHLANDS



Some of the world's oldest rocks are found in northwest Europe. Erosion by glaciers in the last Ice Age created smoothed hills like the mountains of Wales.



4 THE ATLANTIC COAST

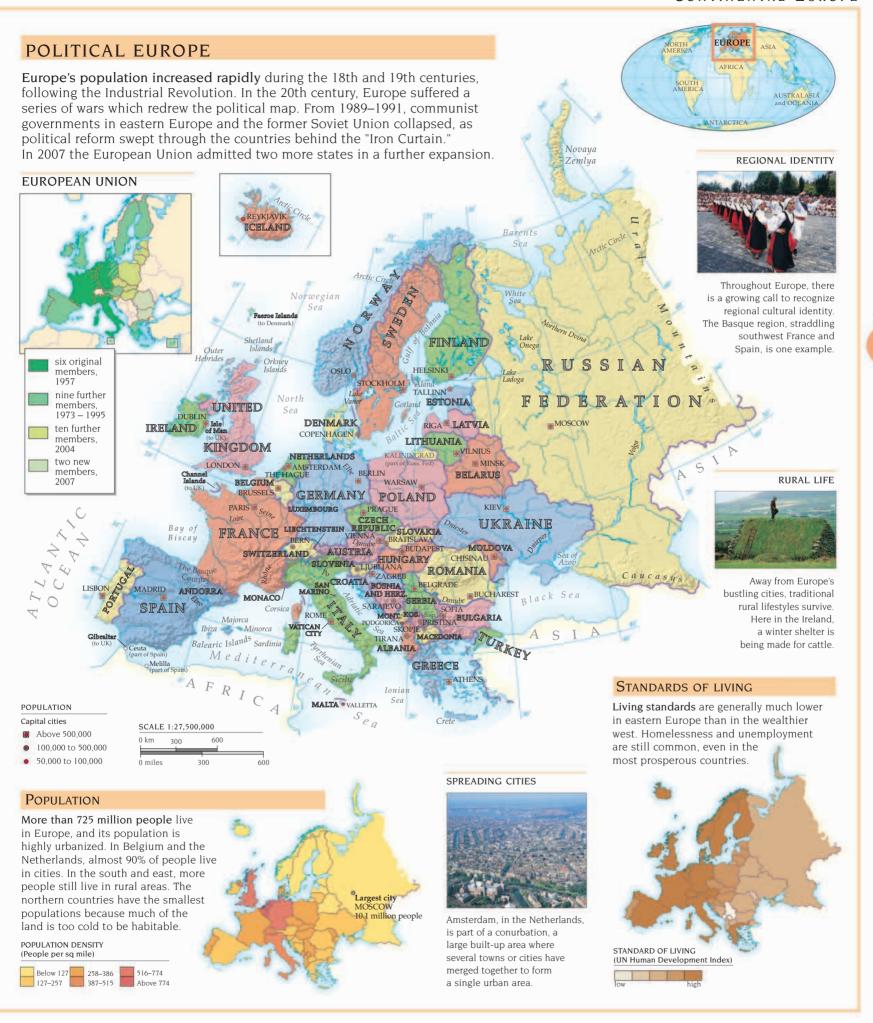


On Europe's Atlantic coast, the force of waves and winds has created striking landforms like this huge sand dune in southwest France.



below sea level

cross section



EUROPEAN GEOGRAPHY

Europe is blessed with a temperate climate, ample mineral reserves, and good transportation links. During the 18th and 19th centuries the continent was transformed, as new methods of production made industry and farming more efficient and productive. Today, in many countries, heavy industries have been replaced by high-tech and service industries. Agriculture is still important, and many crops thrive on Europe's fertile plains.

INDUSTRY

ECONOMIC ACTIVITY

Engineering

High-tech industry

S Finance Food processing

Vehicle manufacturing Chemicals Coal Defense Electronics

→ Aerospace

Western Europe has some of the world's wealthiest countries. In countries such as France, Germany, and the UK, traditional industries like iron and steel-making are now being replaced by light industries. such as electronics, and services like finance and insurance. In Eastern Europe, industry was subsidized by the communist governments for vears. Many factories are old-fashioned and need investment to improve their equipment and production methods.

Norwegian

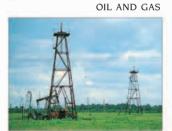
MINERAL RESOURCES

Europe has few sizable reserves of metallic minerals: most were used up by industry during the 19th century. Oil, gas, and coal are found in large quantities – gas in the North Sea and oil in the Volga basin. Coal, although abundant, is



MINERAL RESOURCES

- Bauxite Chromium Copper
- Manganese Nickel Uranium
- Oil/gas field Coal field



Oil and gas reserves are plentiful in the Russian Federation, South of Rostov-on-Don, oil is pumped from the ground and piped to nearby refineries.

RUSSIAN

FEDERATION

CAR MANUFACTURING



Germany is one of the world's largest manufacturers of cars. Companies like BMW. Mercedes-Benz, and Volkswagen

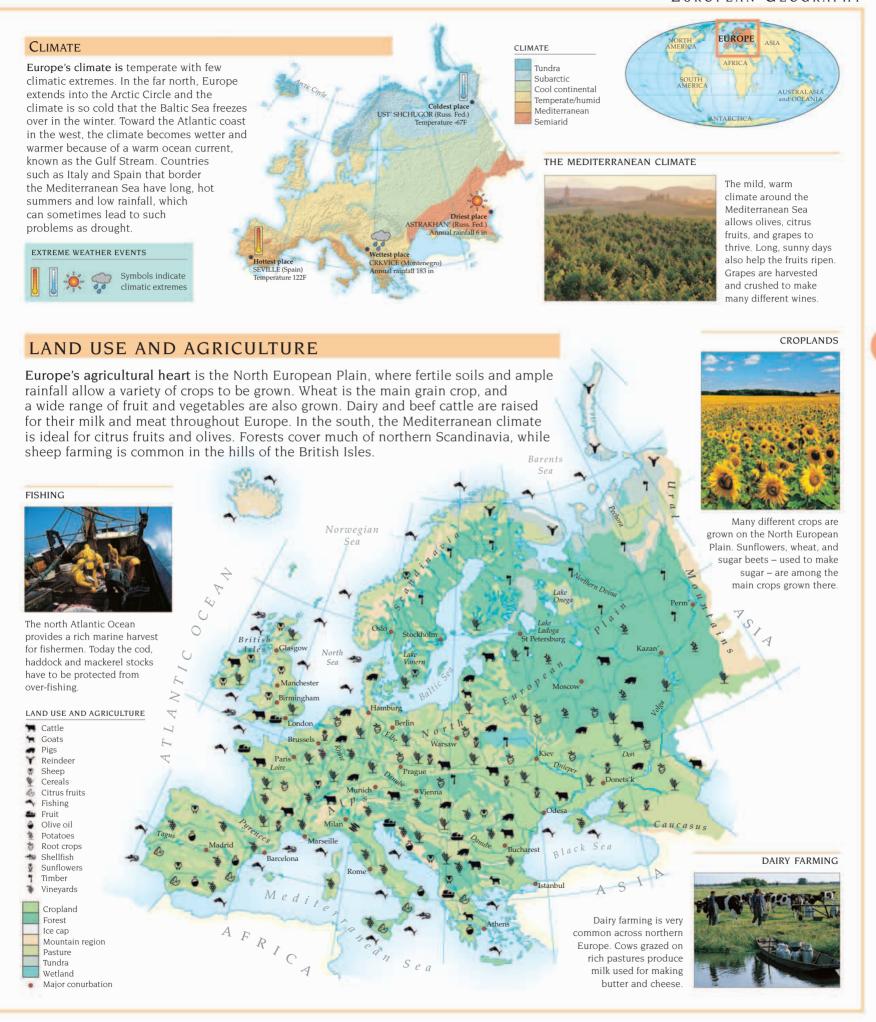
export cars across the world.

FINANCE



London, Frankfurt and Paris are among the most important financial centers in the world. Many banks and financial institutions have their headquarters here. At the London Stock Exchange, people buy and sell stocks and shares.





Northern Europe

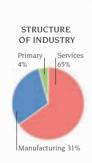
DENMARK, ESTONIA, FINLAND, ICELAND, LATVIA, LITHUANIA, NORWAY, SWEDEN

Denmark, Sweden, and Norway are together known as Scandinavia. These countries, along with the North Atlantic island of Iceland, have similar languages and cultures. Finland has a very different language and a separate identity from its Scandinavian neighbors. Estonia, Latvia, and Lithuania, known as the Baltic states, were part of the Soviet Union until 1989, when each became an independent country.

INDUSTRY

In Scandinavia, many natural resources are used in industry: timber for paper and furniture; iron ore for steel and cars; and fish and natural gas from the seas. Hydroelectric power is generated by water flowing down steep mountain slopes. The Baltic states still rely on Russia to supply their raw materials and energy.

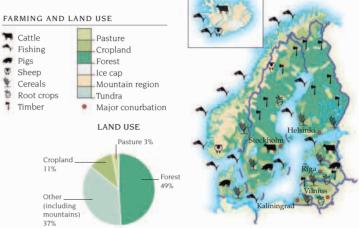






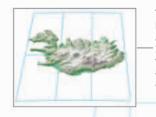
FARMING AND LAND USE

Southern Denmark and Sweden are the most productive areas, with pig farming, dairy farming, and crops such as wheat, barley, and potatoes. Sheep farming is important in southern Norway and Iceland. In the Baltic states, cereals, potatoes, and sugar beets are the main crops, and cattle graze on damp pasture.



THE LANDSCAPE

The north and west of Scandinavia is extremely rugged and mountainous, with landscapes eroded by ice. In the south of Scandinavia the land is flatter, with fertile soils deposited by glaciers. Much of Finland, Norway, and Sweden is covered by dense forests. The Baltic states are much lower, with rounded hills and many lakes and marshes.



The land of ice and fire. Iceland is one of the world's most active volcanic areas. There are about 200 volcanoes on the island, along with bubbling hot springs, mud-holes, and geysers that spurt boiling water and steam high into the air.

POPULATION

The population is distributed mainly along the warmer and flatter southern and coastal areas. Population totals and

densities are low for all of the countries, and Iceland has the lowest population density in Europe, with just seven people per sq mile. Many Scandinavians have holiday homes on the islands, along the lake shores, or in coastal areas.

Trondheim

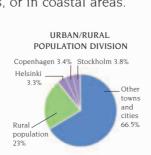
Tampere

Trondheim

Tampere

INHABITANTS





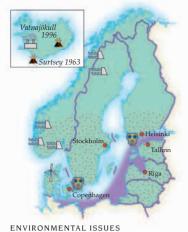
Fjords Norway has many fjords: deep, wide valleys carved by glaciers, drowned by seawater when the ice melted at the end of the last Ice Age.

Baltic Sea (D7)
Ships from Finland, Sweden, and the Baltic states use the Baltic Sea as their route to the north Atlantic Ocean. In winter, much of the sea is frozen.

Glacial lakes
Finland and Sweden have many
thousands of lakes. During the
last Ice Age, glaciers scoured
hollows that filled with water

when the ice melted.

Courland Spit (D7)
This wide sandspit runs for 62-miles along the Baltic coast of Lithuania and the Russian enclave of Kaliningrad. It encloses a huge lagoon.



Major dams Urban air pollution

Volcanic eruption

Wind farm

Geothermal power

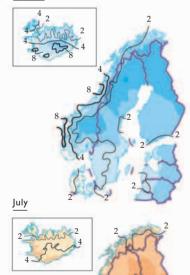
Affected by acid rain Sea pollution

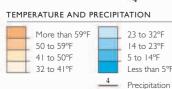
Major industrial center

CLIMATE

Warm ocean currents flowing north along the coasts of Norway and Iceland make the climate mild and wet. Away from the sea, the climate is generally colder and drier.

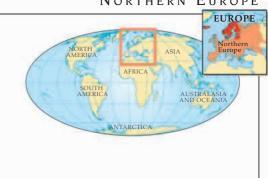
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ENVIRONMENTAL ISSUES

Northern Europe has been badly affected by industrial pollution from other parts of Europe. Polluted air moves north and mixes with the rain to create acid rain. This poisons forests and lakes, destroying the plants and animals living in them. Renewable energy plays a major role in this region, hydroelectric, geothermal and wind power are all exploited.







EUROPE

POPULATION FARMING AND LAND USE More than 27 million people live in the The Low Countries' fertile soils and flat Low Countries, and nine out of every plains provide excellent conditions for ten people live in a town or city. The farming. The main crops grown are barley. largest urban area - known as the potatoes, and flax for making linen. Randstad Holland – is in the Netherlands. In the Netherlands, much It runs in an unbroken line from farmland is used for dairy Rotterdam in the south to farming. The country is THE LANDSCAPE Amsterdam in the west. also famous for growing Even most rural areas flowers, which are The Low Countries are largely flat exported around the in the Low Countries and low-lying. The ancient hills of are densely world. Flowers and the Ardennes, in the far southeast. populated. vegetables are AMSTERDAM are the only higher region. They grown either in THE HAGUE rise to heights of more than 1,640 ft. INHABITANTS open fields or PER SQ MILE Two major rivers – the Meuse and Rotterdan in enormous the Rhine - flow across the Low More than 520 greenhouses. 260-520 Countries to their mouths in the which allow 130-260 North Sea, At the coast, the Rhine production 0-130 deposits large quantities of sediment year-round. Capital city to form a delta. Major city FARMING AND LAND USE **Polders** URBAN/RURAL LUXEMBOURG LAND USE In the Netherlands, land has been POPULATION DIVISION Cattle Pasture reclaimed from the sea since the Amsterdam 2.8% Pigs Cropland Middle Ages by building dikes Rotterdam 2.3% Cereals Forest and drainage ditches. These Flax Wetland Rural areas of land are called polders. * Flowers Major conurbation population They are very fertile. Market gardening Sugar beet Other towns urban) Cropland Rhine River (E4) The River Rhine erodes and carries large amounts **INDUSTRY** of sediment along its course. When it reaches The Low Countries are an important center for the high-tech the Netherlands it divides into three rivers. As they and electronics industries. Good transportation links to the approach the North Sea, rest of Europe allow them to sell their products the rivers slow down, in other countries. The built-up depositing the sediment to form a delta area stretching from Amsterdam in the Netherlands to Antwerp in Belgium Low-lying has the greatest number of factories. Netherlands Luxembourg is also an important Over twobanking center; many international thirds of the banks have their headquarters in Netherlands lies at or below its capital city. sea level. This makes flooding constant threat STRUCTURE OF INDUSTRY n coastal areas Ghent Flanders (B6) The plains of Flanders Manufacturing 25% in western Belgium

INDUSTRY

Aerospace

Chemicals

Textiles

Engineering

Car manufacture

Pharmaceuticals

Finance

Tourism

d

High-tech industry

Major industrial

center / area

Major road

have fertile soils which

glaciers during the last

Ice Age. They provide

were deposited by

excellent land for

growing crops.

Heathlands

The heathlands on the Dutch-Belgian

border have thin,

plants that grow

well here are

sandy soils. The only

heathers and gorse

Ardennes (D8)

The hills of the Ardennes

were formed over 300

million years ago. They

have many deep valleys,

which have been eroded

by rivers like the Meuse.

THE BRITISH ISLES

IRELAND. UNITED KINGDOM

The British Isles lie off the northwest coast of mainland Europe. They are made up of two large islands and more than 5,000 smaller ones. Politically, the region is divided into two countries: the United Kingdom – England, Wales, Scotland, and Northern Ireland – and the Republic of Ireland. Geographically, the British Isles are divided between highlands to the north and west, and lowlands to the south and east.

THE LANDSCAPE

Low rolling hills, high moorlands, and small fields with high hedges are all typical of the British Isles. Ireland is known as the Emerald Isle because heavy rainfall gives it a lush, green appearance. Scotland and Wales are mountainous; the rocks forming the mountains there are some of the oldest in the world.

Indented coastlines The west coast of the

Artical Residual Control Residual Control Residual Residu

Ben Nevis (C4)

This mountain is the highest point in the British Isles. It is 4,406 ft above sea level.

(D5)
The Lake District
National Park has
England's highest peak,
Scafell Pike, at 3,209 ft,
its deepest lake, Wast
Water (260 ft), and its
largest lake, Windermere
(10 miles long).

The Lake District

The Pennines (D6)

The Pennines are a chain of high hills, topped by moorland. They run for more than 250 miles, and are known as the "backbone of England."

The Burren (A6)

The Burren is a large area of limestone in the west of Ireland. Its flat surfaces are known as limestone "pavements." There are also many caves and sinkholes in the area.

The Fens (E6)

This is the flattest area in England. Much of the land here has been reclaimed from the sea.

Rias

Rias are river valleys that have been drowned by rising sea levels. The southern coast of southwest England has many good examples.

FARMING AND LAND USE

The English lowlands and the wide, flat stretches of land in East Anglia are the agricultural heartland of the United Kingdom. The country is no longer self-sufficient in food, but wheat, potatoes and other vegetables, and fruits, are widely grown. In Ireland, and in central and southern England, dairy and beef cattle feed off grassy pastures. In the hilly and mountainous areas, sheep farming is more usual.

FARMING AND LAND USE

Cattle
Pasture
Fishing
Cropland
Sheep
Creeals
Market gardening
Major conurbation
Root crops

Cropland 24%
Pasture 50%
Other (including — urban) 17%
Forest 9%

INDUSTRY

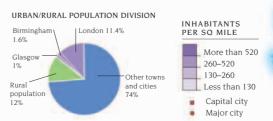
The United Kingdom's traditional industries, such as coal mining, iron- and steel-making, and textiles, have declined in recent years. Today, newer industries make cars, chemicals, and electronic and high-tech goods. Service industries, especially banking and insurance, have grown in importance. The country's most valuable natural resource is its large North Sea oil and gas fields.

INDUSTRY Aerospace Car manufacturing Chemicals Engineering Textiles Finance High-tech industry Tourism Major industrial center / area Major road



POPULATION

The United Kingdom is densely populated, with most of the people living in urban areas. The southeast is the most crowded part of the country. The Scottish Highlands are less populated today than they were 200 years ago. Ireland is still mainly rural, with many Irish people making their living from farming.







IRELAND

IRELAND, NORTHERN IRELAND

Ireland faces the north Atlantic Ocean and is one of the remotest parts of the European Union. Since 1921 the island has been divided into two separate states: Northern Ireland, which is part of the United Kingdom, and Ireland, which has its own government in Dublin. The eastern side of the island has more people and industry. In the west, traditional ways of life based on farming remain strong and the native Irish language is still spoken by some people.

INDUSTRY Ireland has few mineral resources, around 15% of its electricity is produced by burning peat. In the last 20 years the European Union has given money to help the Irish economy and many new factories have been set up, mainly in the area around Dublin. Hi-tech industries expanded rapidly, as a result of low set-up costs and tax benefits. INDUSTRY Aerospace Hi-tech industry Tourism Brewing Chemicals

INHABITANTS PER SQ MILE

Capital city

Major city

More than 650

Less than 130

260-650

130-260

POPULATION

Engineering

Food processing

The population of Ireland has actually fallen over the last century as a result of mass emigration, mainly

Major industrial

center / area

Major road



FARMING AND LAND USE

Potatoes were once the traditional staple food of the Irish; potatoes and cereals flourish in the drier east. The climate is too wet for many types of crop, particularly in the west, where the



THE LANDSCAPE

Ireland's mountains are nearly all close to the sea. They form a ring of high ground — broken in only a few places — encircling a lower-lying plain which fills the central areas. Hundreds of lakes, large areas of bogland, and low, grassy hills cover this central plain. The west coast follows an extremely irregular line, with many long bays and headlands.

High cliffs (C2) Lakes made by glaciers

The cliffs of Donegal are some of the highest in Europe. Slieve League has been half cut away by sea erosion, so that the cliff rises vertically, all the way up from the shore to its 2,198 ft summit.

Macgillycuddy's Reeks (B6)

This is the highest mountain range in Ireland.

The jagged peaks and steep-sided valleys

glacial erosion, during the last Ice Age.

were cut from the highly resistant rocks by

The central plain is covered with lakes of many different sizes. Most of these lakes were formed by huge blocks of ice which remained lying around as the last Ice Age came to an end, slowly melting over hundreds of years to leave sunken pits in the land surface.

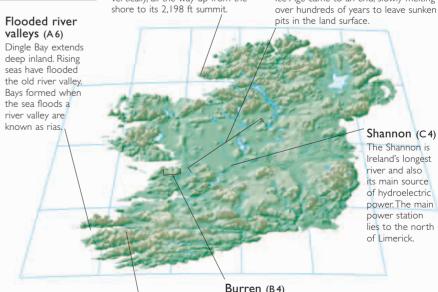
The Burren is a large plateau of limestone rock.

Limestone is permeable, which means that water

bare rock is visible at the surface in many places,

where it is called a limestone pavement.

sinks below the surface and flows underground. The



2

3

4

5

7

1,640-3,280ft

3,280-6,560ft

Below 6 560ft

0-330ft

100,000-500.000

0 50,000-100,000

Less than 50,000

SCOTLAND

Scotland occupies the northern third of Britain and has three main regions: the northern highlands and islands, the Southern Uplands and, between these two mountain areas, the central lowlands, where around three-quarters of the population live and work. Scotland was once an independent country and, after nearly 300 years of union with England, has regained its own parliament, with certain autonomous powers. Scotland's economy has been boosted over the last 30 years by the North Sea oil industry.

INDUSTRY

A century ago, the area around the Clyde River was one of the great industrial regions of the world. The old heavy industries have since declined and been replaced by hi-tech and electronics industries, earning the area the name of "Silicon Glen."

North Sea oil has brought many jobs and attracted new, oil-based industries such as chemicals and

plastics production to the east coast.



Hebrides

(A2), (B6)

The Inner and

Outer Hebrides

comprise several

large islands and hundreds of

small ones. Many

formed following the last Ice Age,

as the sea level

off parts of the

landscape from

mountainous

the mainland.

Lochs (D5)

The many sea lochs (fjords)

rose after the last Ice Age, flooding the deep valleys that

had been cut by glaciers. The

sea lochs cause the coast to

follow a highly irregular line.

of the west coast were formed as the sea level

rose, cutting

of these were

ENVIRONMENTAL ISSUES

During a storm in January 1993, the Braer oil tanker struck the cliffs of southern Shetland. The ship broke up, shedding its entire load of crude oil into the sea. Although the oil was washed away within weeks, it did have some long-term effects upon the shellfish industry. Due to its favorable landscape, Scotland has seen a significant rise in the number of wind farms built in recent years.

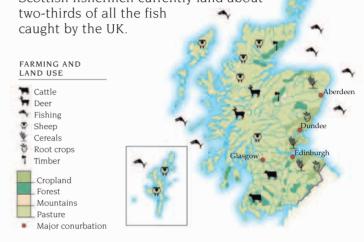




FARMING AND LAND USE

The eastern side of Scotland has a drier climate than the west and is suitable for growing cereal crops and vegetables. Most of the mountain areas are too wet and barren for arable farming and are put to a variety of uses, which include sheep and deer farming, game-keeping, forestry, tourism, and recreation.

Scottish fishermen currently land about



THE LANDSCAPE

Much of Scotland is rugged and mountainous.

During the last Ice Age, around 18,000 years ago, glaciers and great sheets of ice attacked Scotland's hard, ancient rocks, leaving behind a landscape of high moorlands and steep-sided mountains separated by deep valleys, often filled by lakes known as lochs.

Glen Mor (D3) Glen Mor is a deep valley Which runs right across Scotland. It marks a major Ine of rock fracture, known as a fault. Much of the fault Grampians (D4) The Grampians are Britain's largest and highest mountain region. They include the spectacular

ine of rock fracture, known region. They include the spectacular line is filled by Loch Ness (D3) and Loch Linnhe (C4).

(C3) and Loch Linnhe (C4).

(C4) (D3) and Loch Linnhe (C4).

(C5) (D4), the highest point in the British Isles, at 4,406 ft.

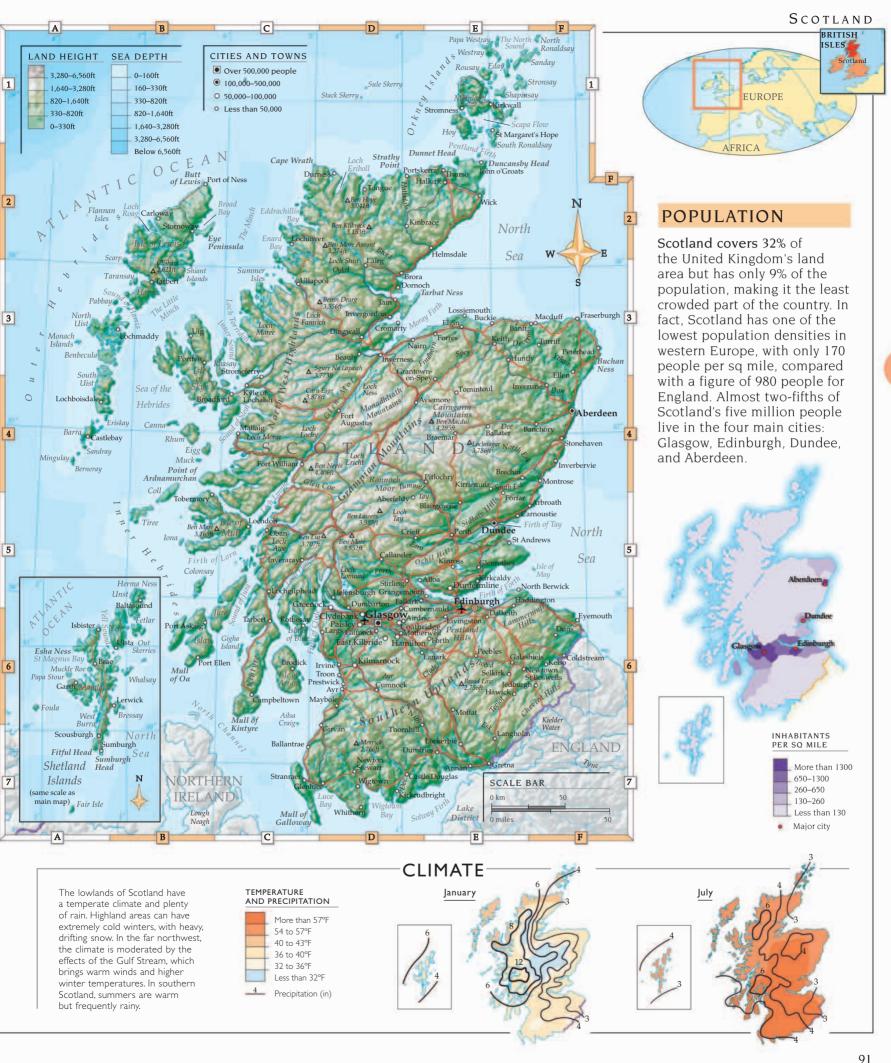
Firth of Forth (E5) The Firth of Forth

The Firth of Forth is one of several great sea inlets, known as firths, along the Scottish coast. They include the Firths of Clyde (D6), Tay (F5), and Moray (E3).

Rannoch Moor (D5)

Rannoch Moor is the largest wild moorland in Scotland. A great ice sheet covered the area during the last Ice Age, leaving behind a vast expanse of bleak, bare ground, pitted with small depressions.

90



NORTHERN ENGLAND & WALES

The Industrial Revolution of the 18th and 19th centuries began in northern England, exploiting rich local resources to begin a new era of mass production. Today, these industries have declined, but despite a number of difficult years. northern England is becoming more prosperous again. Similarly, south Wales was once a major coal-mining and heavy industrial area but this has largely been replaced by new service industries. The magnificent scenery throughout this region attracts many tourists and outdoor enthusiasts.

INDUSTRY

Traditional industries such as iron and steel, coalmining and textiles have been in decline for many years. More recently, the type of industries have changed to light engineering and hitech industries, producing microchips and computers, together with service industries such as insurance and retailing, printing and publishing. Tourism is important; large numbers of people visit the area's stunning national parks each year.



Middlesbrough

glaciers during the last Ice Age.

FARMING AND LAND USE

The eastern lowlands have an ideal climate for arable crops, while oats and potatoes grow in the north and west. The southwest is used mainly for grazing cattle and sheep, which also graze rough in the upland areas of the Pennines and Wales. Forestry is increasingly important in mountain areas FARMING AND LAND USE Cattle Sheep Cereals Market gardening Root crops Cropland Forest Pasture Major conurbation

THE LANDSCAPE

The Pennines form the backbone of northern England. Likewise, the Cambrian Mountains, including the spectacular landscape of Snowdonia, run the length of central Wales. To the east, the Aire and Ouse rivers have cut a broad flood plain between the Pennines and the North York Moors. while in the far northwest, Cumbria's Lake District has many long, deep lakes, which were formed during the last Ice Age.

quantities in northern and central areas.

Limestone pavements

Bare "pavements" of weathered limestone are also known as karst scenery. They have a block like appearance with deep cracks between the blocks that have been dissolved by rainwater.

Spurn Head (F4)

Spurn Head is a long sand bar (called a spit) at the mouth of the Humber estuary, It was formed by waves which deposited sand across the mouth of the bay. Constant erosion has almost inaccessible from the mainland

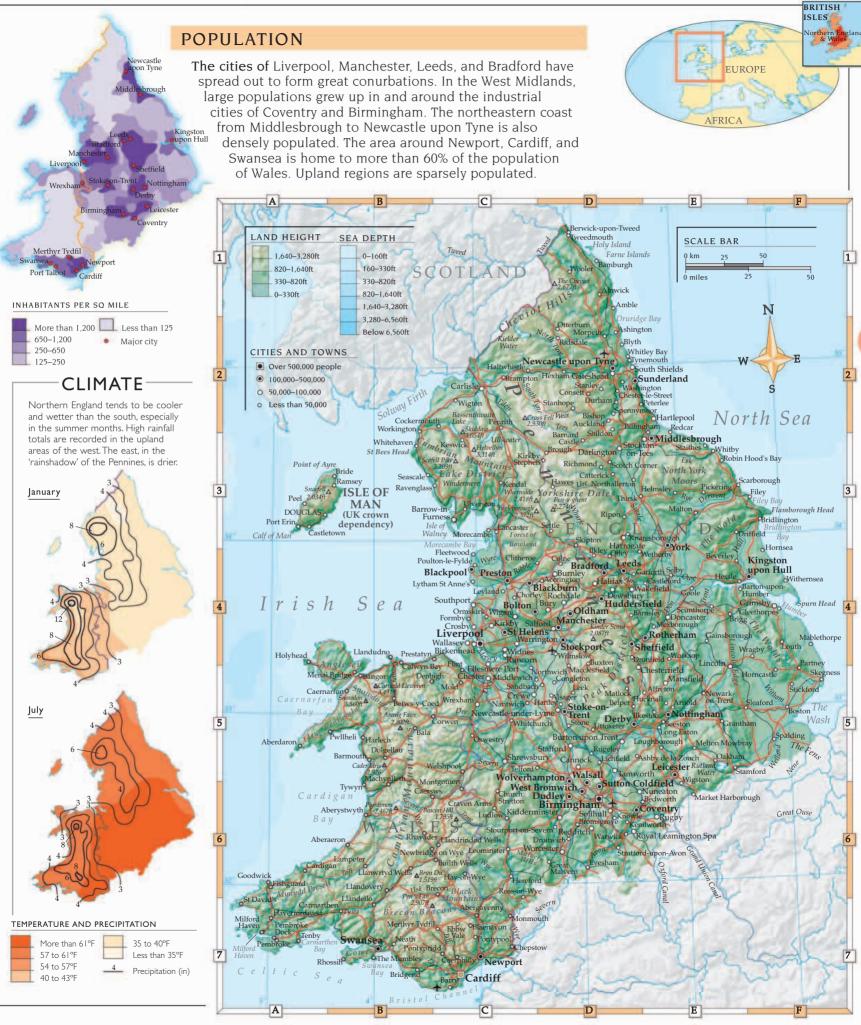
ENVIRONMENTAL ISSUES Some of the UK's most dramatic scenery is found

in this area, and national parks have long been established to protect the environment. These parks have proved so popular that in some places tourists are in danger of destroying the environment. Coal-fired power stations in the region power the large cities, but recently there has been

an increase in renewable energy production.

ENVIRONMENTAL ISSUES Coal-fired power station △ Barrage scheme Hydroelectric scheme National park Wind farm Major oil spill Major industrial city

Lake District (C3) often made Spurn Head The Lake District covers a small area of the Cumbrian Mountains. The 15 lakes here form a radial pattern, spreading out from a central zone of volcanic rock The Pennines (D3) North York Moors (E3) Cambrian Mountains (B6) Snowdonia (B5) These spectacular mountains include The Cambrian range runs the whole length Snowdon, the highest point in England and of the country and contains some of the Wales, at 3,560 ft. The spectacular sheer oldest rocks in Britain. The rock is rich in minerals. Slate was also once mined in great sides and jagged ridges were carved by



SOUTHERN ENGLAND

The southern counties of England, and particularly Greater London, are the most densely populated part of the British Isles. There are more industries and more jobs here than anywhere else in the UK. In contrast, the counties of the far west and east are much less heavily populated and more rural, although towns in the eastern counties have been growing rapidly since the 1980s. Following the completion of the Channel Tunnel, the UK has had a direct rail link to Europe.

INDUSTRY

in southern England every year.

London is one of the world's top financial centers and is also a leading center for other service industries including insurance, the media, and publishing. Many car manufacturers are based in southern England, though the numbers of people employed have greatly decreased. Several cities, including Cambridge and Swindon, are centers for hi-tech industry. Thousands of tourists visit the historic and cultural centers

INDUSTRY Aerospace Brewing Car manufacture Chemicals Engineering Food processing Textiles Finance Hi-tech industry Printing and publishing Tourism Major industrial Major road

ENVIRONMENTAL ISSUES

The large and growing population of southern England has increased pressure for the development of "green belt" land, designed to protect the countryside surrounding large cities. Alternatives include infilling in urban areas, "brownfield" redevelopment, and building on floodplains. The proposed expansion of Heathrow airport has been cancelled



FARMING AND LAND USE

Fertile soils and reliable rainfall mean that a wide range of crops can be grown in southern England. Large arable farms growing wheat and barley are found in the flat eastern counties, and a great variety of soft and orchard fruits and vegetables are grown in market gardens in the far southeast. Beef and dairy cattle and large flocks of sheep are grazed throughout the south.



THE LANDSCAPE

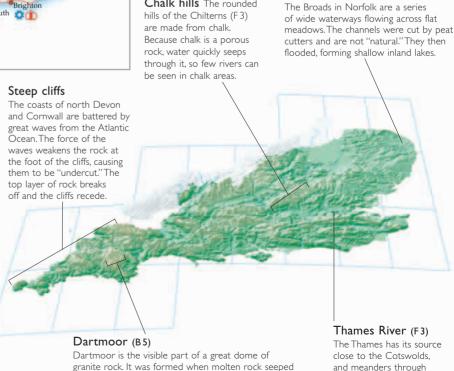
The landscape of southern England is very varied. Cornwall in the far west has craggy hills, and a jagged coastline shaped by the Atlantic Ocean. The Cotswolds and the North and South Downs are gentle hills, while toward the east, the land becomes flatter. Near the east coast, low-lying areas are occasionally prone to flooding.

The Broads (H2)

Oxford and London

Sea in a wide estuary.

before reaching the North

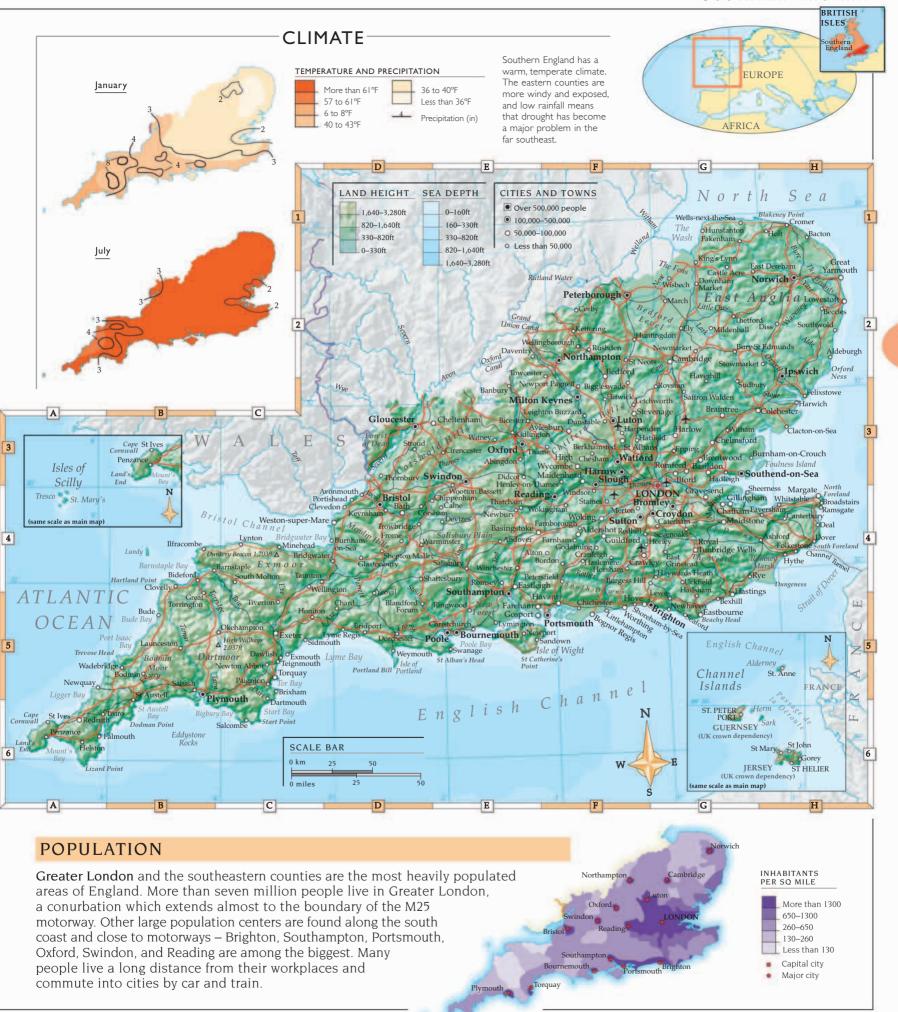


into and cooled in the Earth's crust. Because granite

is so hard it erodes very slowly, so outcrops of rock

known as tors can be seen all over Dartmoon

Chalk hills The rounded



FRANCE

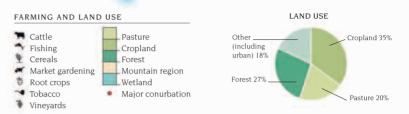
ANDORRA, FRANCE, MONACO

France has helped shape the history and culture of Europe for centuries. Today, as a founder-member of the European Union, France is an avid supporter of the eventual political and economic integration of Europe's different countries. France is Western Europe's leading farming nation and one of the world's top industrial powers. Its cultural attractions and scenery draw tourists from around the world.

Paris Marseille

FARMING AND LAND USE

France is able to produce a variety of crops because of its rich soils and mild climate. Wheat is grown in many parts of the north, along with potatoes and other vegetables. Fields of corn and sunflowers and fruit orchards are found in the south, while grapes for the famous wine industry are grown across the country. Beef and dairy cattle are grazed on low-lying pasture.



THE LANDSCAPE

The north and west of France is made up of mainly flat, grassy plains or low hills. Wooded mountains line the country's borders in the south and east, and much of central France is taken up by the Massif Central, an enormous plateau cut by deep river valleys and scattered with extinct volcanoes. Three major rivers, the Loire, Seine, and Garonne, drain the lowland basins.

Paris Basin

The Paris Basin is a saucershaped hollow made up of layers of hard and soft rock, covered with very fertile soils. It runs across about 38,600 sq miles of northern France.

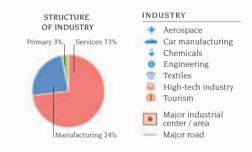
Alps (E5)

The western end of the European Alpine mountain chain stretches into southeast France. The French Alps can be crossed by several passes, which give access to Italy and Switzerland.



INDUSTRY

France is one of the world's top manufacturing nations, with a variety of both traditional and high-tech industries. Cars, machinery, and electronic products are exported worldwide, along with luxury goods such as perfumes, fashions, and wines. Extensive use of nuclear power has allowed France to become the world's largest net exporter of electricity.



Normandy The coast of Normandy is lined with high

France and Spain. Several

height, and because

peaks reach heights of over

9,480 ft. The Pyrenees are

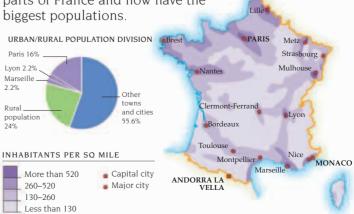
they have few low passes.

difficult to cross, due to their

chalk cliffs

POPULATION

In the past 50 years, most people have moved from the countryside into urban areas. Paris and its suburbs, the industrial cities, and the Côte d'Azur in the southeast are the most economically developed parts of France and now have the biggest populations.



Pyrenees (C7) These mountains form a natural barrier between This vast granite plateau was

This vast granite plateau was formed over 200 million years ago. Volcanic activity here stopped only within the last 10,000 years, and the region's rounded hills are the worn-down remainsof volcanic mountains.

Camargue (D7)

The Camargue is an area of marshes, pastures, sand dunes, and salt flats at the mouth of the Rhône River. Rare animal and plant species are found there.

Mont Blanc (E5)

This mountain in the French

Alps is the tallest in Western

Europe. It is 15,771 ft high.



Spain and Portugal

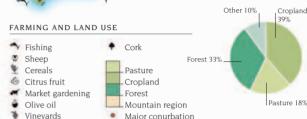
PORTUGAL. SPAIN

Spain and Portugal occupy the Iberian Peninsula, which is cut off from the rest of Europe by the Pyrenees. Over the centuries, Iberia has been invaded and settled by many different peoples. The Moors, who arrived from North Africa in the 8th century. ruled much of Spain for almost 800 years, and their influence can still be seen in Spanish culture. Portugal has modernized its economy since joining the European Union, and both countries have changed their currencies to the euro.

FARMING AND LAND USE

Cereals, especially wheat and barley, are Iberia's chief crops. In the dry south of Spain, the land is irrigated to citrus fruits, particularly oranges, and a





INDUSTRY

Madrid, Barcelona, and the northern ports are Spain's industrial centers. Here, iron ore from Spanish mines is used to make steel, and factories produce cars, machinery, and chemicals. Portugal exports textiles. clothing, and footwear, along with fish, such as sardines and tuna, caught off the Atlantic coast. In Lisbon both countries, tourism is very important to the economy.



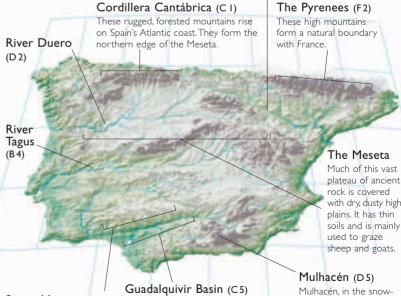
THE LANDSCAPE

Most of inland Spain is taken up by the Meseta, a dry, almost treeless plateau surrounded by steep mountain ranges. The only lowlands, apart from narrow strips along the Mediterranean coast, are the valleys of the Ebro, Tagus, Guadiana, and Guadalquivir Rivers. Portugal's coast is lined by wide plains. Inland, the Tagus River divides the country in two. To the north the land is hilly and wooded; to the south it is low-lying and drier.

STRUCTURE OF INDUSTRY INDUSTRY Aerospace Textiles Car manufacture Mining Chemicals Tourism Engineering Publishing Fish processing Major industrial Manufacturing 29% Shipbuilding center / area Steel Major road

Westward-flowing rivers

The Duero, Tagus, and Guadalquivir Rivers flow across the Meseta on their courses to the Atlantic Ocean Ebro River (E2) The Ebro River carries vital irrigation water to Spain's northeastern plains before flowing into the Mediterranean Sea.

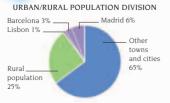


POPULATION



In the first half of the 20th century. most Spaniards lived in villages or small towns scattered around the country. Today, tourism and industry have drawn most of the population to the cities and coastal areas. Most Portuguese live in cities,

but one third still live in rural areas along the coast or in the river valleys.





Sierra Morena (C5)

The southern end of the Meseta is marked by this low range of mountains.

Guadalquivir Basin (C5)

The Guadalquivir River has deposited layers of rich soil called alluvium on its floodplain, making this one of Spain's most fertile regions.

capped Sierra Nevada range in southern Spain, is 11,421 ft high. It is Iberia's tallest mountain.



GERMANY AND THE ALPINE STATES

AUSTRIA, GERMANY, LIECHTENSTEIN, SLOVENIA, SWITZERLAND

Germany lies at the heart of Europe and is the biggest industrial power in the continent. In 1945, Germany was divided into two separate countries, East and West Germany, which were reunited in 1990. To the south, the snow-capped peaks of the Alps, Europe's highest mountains, tower over the Alpine states – Switzerland, Austria, Liechtenstein, and the former Yugoslavian state of Slovenia.

INDUSTRY

Germany is a leading manufacturer of cars, chemicals, machinery, and transportation equipment. Switzerland and Liechtenstein make high-value products such as watches and pharmaceuticals and provide services such as banking.

The Alpine states are a popular tourist location year-round.



BERLIN

INHABITANTS PER SQ MILE

Capital city

Major city

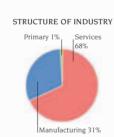
More than 520

Less than 130

260-520

130-260

Frankfurt am Mair

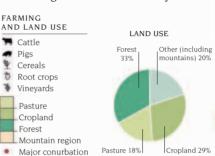




FARMING AND LAND USE

Germany produces three-quarters of its own food. Crop farming is widespread, with cereals and root crops grown in flat, fertile areas. Cattle and pig farming supplies meat and

dairy products. Across the Alps, the mountains limit farming, although grapes are grown on the warmer, south-facing slopes. The rich pastures of the lower slopes are used to graze beef and dairy cattle.



Berlin Liepzig ing 0% Stuttgart Munich Bern Vienna Bern Zürich Ljubljana

THE LANDSCAPE

To the north, flat plains and heathlands surround the North Sea coast. Farther south are Germany's central uplands, which are lower and older than the jagged peaks of the Alps, which began to form about 65 million years ago. From its source in the Black Forest, the Danube River flows eastward across Germany and Austria on its course to the Black Sea. The other major river, the Rhine, flows northward.

Alps (C8)

The Alps were formed when the African Plate

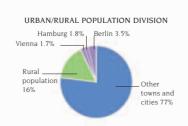
collided with the Eurasian Plate, pushing up and

crushing huge amounts of rock, to form mountains.

POPULATION

Western and central Germany are the most densely populated areas in this region – particularly in and around the Rhine and Ruhr valleys, where there are many industries. In the south, the steep slopes of the

Alps and permanent snow cover on the higher peaks means that most large towns and cities are in scattered lowland areas.



Rhine River (B 5) The Rhine is Germany's main waterway. It is an important transportation route to and from northerm ports. It twists and turns across 820 miles of Europe, from its source in southeast Switzerland, to the North Sea.

Danube River (B7) The Danube is Europe's secondlongest river, flowing 1,765 miles.

Lake Constance (B7) Lake Constance covers 210 sq miles and is Germany's largest lake, although its waters are shared by Austria and Switzerland.

mountains are much older than the Alps. They were formed over 300 million years ago. Karst region (E8) Most of the water in this limestone region of Slovenia flows underground, through huge caves and caverns.

Harz mountains (C4)
These rugged, wooded

100



ITALY

ITALY, SAN MARINO, VATICAN CITY

Italy has played an important role in Europe since the Romans based their mighty empire here over 2,000 years ago. The famous boot shape divides into two very different halves. Northern Italy has a varied range of industries and agriculture. Beautiful cities like Venice, Florence, and Rome draw tourists from all over the world. Southern Italy is poorer and less developed than the north, with a hotter, drier climate and less productive land.

THE LANDSCAPE

Italy is a peninsula jutting south from mainland Europe into the Mediterranean Sea. In northern and central Italy the land is mainly mountainous. Most of the flat land is in the Po Valley and along the eastern coast, Italy lies within an earthquake zone, which makes the land unstable, and there are also a number of active volcanoes.

Italian lakes The Dolomites (D2) Great lakes like Garda (B3) These high mountains are Po Valley (C2) and Como (B2) fill several part of the same range as south-facing valleys once the Alps. They were formed The basin of occupied by glaciers. the Po River 65 million years ago. has the best soils in Italy. Rich alluvium is washed from the mountains by the river to form a wide plain The **Apennines** (C4)

Tyrrhenian Sea (C6) This sea, which divides the Italian mainland from Sardinia, is gradually filling with sediment from the rivers which flow into it

Sardinia

The island of Sardinia is made from very old rocks that were thrust up to form mountains.

This mountain

the "backbone

of Italy, dividing the rocky west coast from

range forms

the flatter

east coast.

sandy

Sicily

Sicily is the largest island in the Mediterranean. It has a famous active volcano called Mount Etna and often experiences earthquakes.

Gulf of Taranto (F7)

Earthquakes

Apennines, as well as coastal areas of southwestern Italy,

often experience

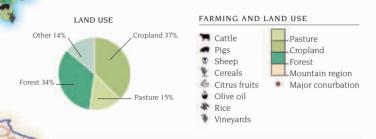
earthquakes and mudslides

The southern

During earthquakes, great blocks of land have broken away and sunk into the sea, forming the Gulf's square shape.

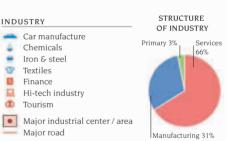
FARMING AND LAND USE

The Po Valley is a broad, flat plain in the north of Italy. It contains the most fertile land in the country, and wheat and rice are the main cereal crops grown here. Grapes for wine are grown everywhere in Italy. In much of the south, the land must be irrigated to support crops. Where there is enough water, citrus fruits, olives, and many kinds of tomatoes are grown.



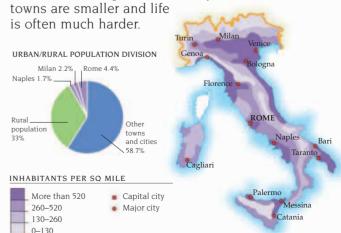
INDUSTRY

Italian industry is located mainly in the north. Design is extremely important to Italians, and they are proud of the elegant designs of their furniture, clothes, and shoes, Although many firms are small, they are very efficient. Italy has few mineral resources, so it needs to import raw materials to make cars, engines, and other high-tech products.



POPULATION

Most of Italy's population lives in the north, mainly in and around the Po Valley, which is home to over 25 million people. Most people here have a high standard of living. Southern Italy is much more rural:





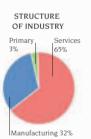
CENTRAL EUROPE

CZECH REPUBLIC, HUNGARY, POLAND, SLOVAKIA

Central Europe has been invaded many times throughout history. The countries have changed shape frequently as their borders have shifted back and forth. From the end of World War Two until 1989, they were ruled by communist governments, which were supported by the Soviet Union. In 1993, the state of Czechoslovakia voted to split into two separate nations, called the Czech Republic and Slovakia.

INDUSTRY

Brown coal, or lignite, is central Europe's main fuel, and one of Poland's major exports. A variety of minerals are mined in the mountains of the Czech Republic and Slovakia. Hungary has a wide range of industries producing vehicles, metals, and chemicals, as well as textiles and electrical goods. The Czech Republic is famous for its breweries and glass-making.





ENVIRONMENTAL ISSUES

The growth of heavy industries that took place under communist rule has caused terrible environmental pollution in some places. Hungary's oil and Poland's brown coal have a high sulfur content. Burning these

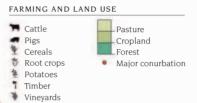
fuels to produce electricity causes air pollution, and the sulfur dioxide produced combines with moisture in the air, leading to acid rain.





FARMING AND LAND USE

Central Europe's main crops are cereals such as corn, wheat and rye, along with sugar beets and potatoes. Sweet peppers grow in Hungary, helped by the warm summers and mild winters. They are used to make paprika. Grapes are also grown, to make wine. Large areas of the plains of Hungary and Poland are used for rearing pigs and cattle. Trees for timber grow in the mountains of Slovakia and the Czech Republic.





THE LANDSCAPE

Forest 29%

Pasture 13%

The high Carpathian Mountains sweep across northern Slovakia. The lower Sudeten Mountains lie on the border of the Czech Republic and Poland. Together, these mountains form a barrier that divides the Great Hungarian Plain and the Danube River basin in the south from Poland and the vast rolling lowlands of the North European Plain.

Pomerania (C2) This is a sandy coastal area with lakes formed by glaciers. It stretches west from the River Vistula to just beyond the German border.

Vistula River (F4)

Poland's largest river is the Vistula. It flows northward, passing through the capital, Warsaw, on its way to the Baltic Sea.

Hot springs
The Sudeten mountains
(C5) are famous for their hot mineral



Białystol

Bydgoszc

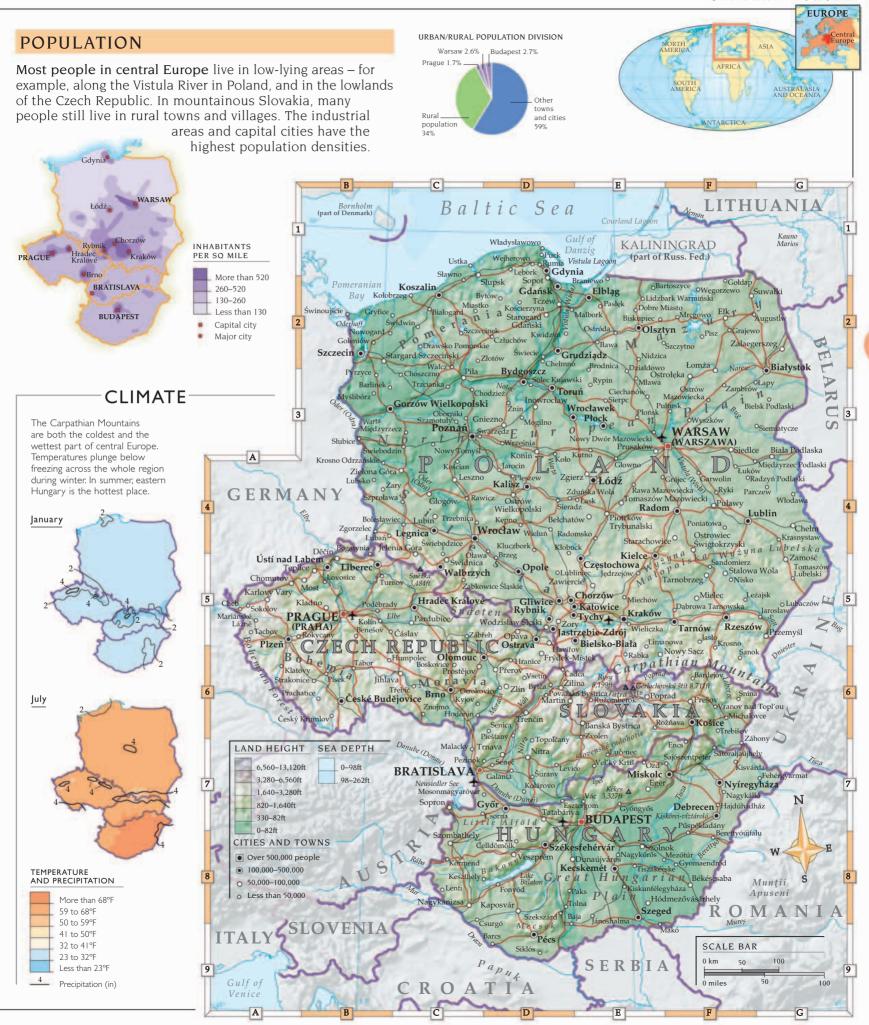
Danube River (D7)

The Danube River forms the border between Slovakia and Hungary for over 100 miles. It then turns south to flow across the Great Hungarian Plain.

Great Hungarian Plain (E8)

This huge plain covers almost half of Hungary's land area. It is a mixture of farmland and steppe.

Tatra Mountains (E6)
The Tatra Mountains are a small range at the northern end of the Carpathian Mountains. They include Gerlachovsky Stft, which is Central Europe's highest point at 8,711 ft.



SOUTHEAST EUROPE

ALBANIA, BOSNIA AND HERZEGOVINA, BULGARIA, CROATIA, GREECE, KOSOVO, MACEDONIA, MONTENEGRO, SERBIA

Southeast Europe extends inland from the coasts of the Aegean, Adriatic, and Black Seas. Ancient Greece was the birthplace of European civilization. Albania and Bulgaria were ruled by communists for over 50 years, until the early 1990s. The rest of the region was part of a communist union of states called Yugoslavia. The collapse of this union in 1991 led to a civil war, after which seven separate countries emerged.

THE LANDSCAPE

Southeast Europe is largely mountainous, with ranges running from northwest to southeast. The Dinaric Alps run parallel to the Dalmatian coast, and the Pindus Mountains continue this line into Greece. In the Aegean Sea, the drowned peaks of an old mountain chain form thousands of islands.

Earthquakes

Bulgaria, Greece, and Macedonia lie in earthquake zones. Major earthquakes have hit the Ionian Islands in 1953 and Macedonia in 1963.

Dinaric Alps

(C2)

Great Hungarian Plain (D I)

The Vojvodina region of Serbia is the southern part of the Great Hungarian Plain. The plain is flat, and fertile soil enables crops like corn and wheat to be grown.



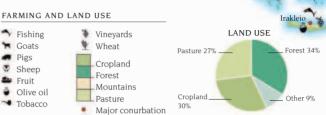
Balkan Mountains (F3)

The mountains form a spur running

FARMING AND LAND USE

Cereals like wheat, and fruits, vegetables, and grapes are grown in the fertile north of the region.

The band of mountains across southeast Europe is used mainly for grazing sheep and goats. Farther south, and in coastal areas, the warm Mediterranean climate is ideal for growing grapes, olives, and tobacco



INDUSTRY

Mainland Greece and the many islands in the Aegean Sea are centers of a thriving tourist trade, while tourism on the Black Sea coast continues to grow. The Dalmatian coast's growing tourist industry is recovering, after the civil war in former Yugoslavia disrupted it, and other industries. Heavy industries like chemicals, engineering, and shipbuilding remain an important source of income in Bulgaria.



SOFIA Plovdiv

POPULATION

Greece's population is two thirds urban; over 35% Rijeka live in the capital, Athens, and in Salonica. In Bulgaria, most people live in cities. About half of Albania's and Macedonia's people are still rural. Since the civil war, the different ethnic groups in Bosnia and Herzegovina, Montenegro, Serbia, and Croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatia have lived apart from one another page 18 croatian have



east to west through Bulgaria and separate the two main rivers, the Danube and the Maritsa. Dalmatian coast (B2) The Dalmatian coast has many long, narrow islands near the shore. These were formed as the Adriatic Sea flooded the river valleys that ran parallel to the coast Greek Islands The Peloponnese (E6) The Peloponnese is a mountainous Greek Islands peninsula linked to the Greek There are two groups of Greek Islands, the Ionian mainland only by a narrow strip of land, only 4 miles wide, called Islands to the west of mainland Greece, and the the Isthmus of Corinth. more numerous islands to the east in the Aegean Sea.



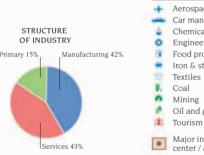
EASTERN EUROPE

BELARUS, MOLDOVA, ROMANIA, UKRAINE

Much of Eastern Europe, which extends north from the Danube River and the Black Sea, is covered by open grasslands called steppe. Ukraine's excellent farmland and large mineral reserves make it one of the strongest new countries to emerge from the former Soviet Union. Moldova and Belarus were also part of the USSR until they became independent in 1991. Romania was a strict communist regime from 1945 until 1989.

INDUSTRY

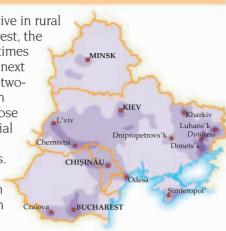
In Ukraine, most industry is based around the country's mineral reserves. The Donbass region has Europe's largest coalfield and is an important center for iron and steel production. The main industries of Belarus are chemicals, machine building, and foodprocessing. Romania's manufacturing industries are growing, with the help of foreign investment.





POPULATION

Many Romanians still live in rural areas, although Bucharest, the capital, is home to six times as many people as the next largest city. In Ukraine, twothirds of the population live in cities such as those in the Donbass industrial area. Most of Belarus's people are city dwellers. Moldova is the most rural country in Eastern Europe: over half live in the countryside.





THE LANDSCAPE

Flat or rolling grasslands, marshes, and river flood plains cover almost all of Ukraine and Belarus. The Carpathian Mountains cross the southwestern corner of Ukraine and continue in a large arc-shaped chain of high peaks at the heart of Romania, Along the southern part of this chain, the Carpathians are called the Transylvanian Alps.

Pripet Marshes (C3)

The Pripet Marshes in Belarus and Ukraine form the largest area of marshland in Europe

The steppes

The steppes are great, wide grasslands that are found across eastern Europe and central Asia. Over 70% of the Ukrainian landscape is steppe. Little rain falls throughout the steppes.

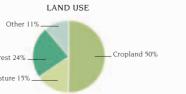


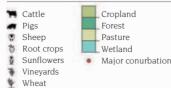
Ukraine are very fertile and the country is a big producer of cereals, sugar beets. and sunflowers, which are grown for their oil. In Moldova and southern Romania. the warm summers are ideal for growing grapes for wine, along with sunflowers

FARMING AND LAND USE

Cattle and pigs are farmed throughout Eastern Europe.

FARMING AND LAND USE





Carpathian Mountains (C5)

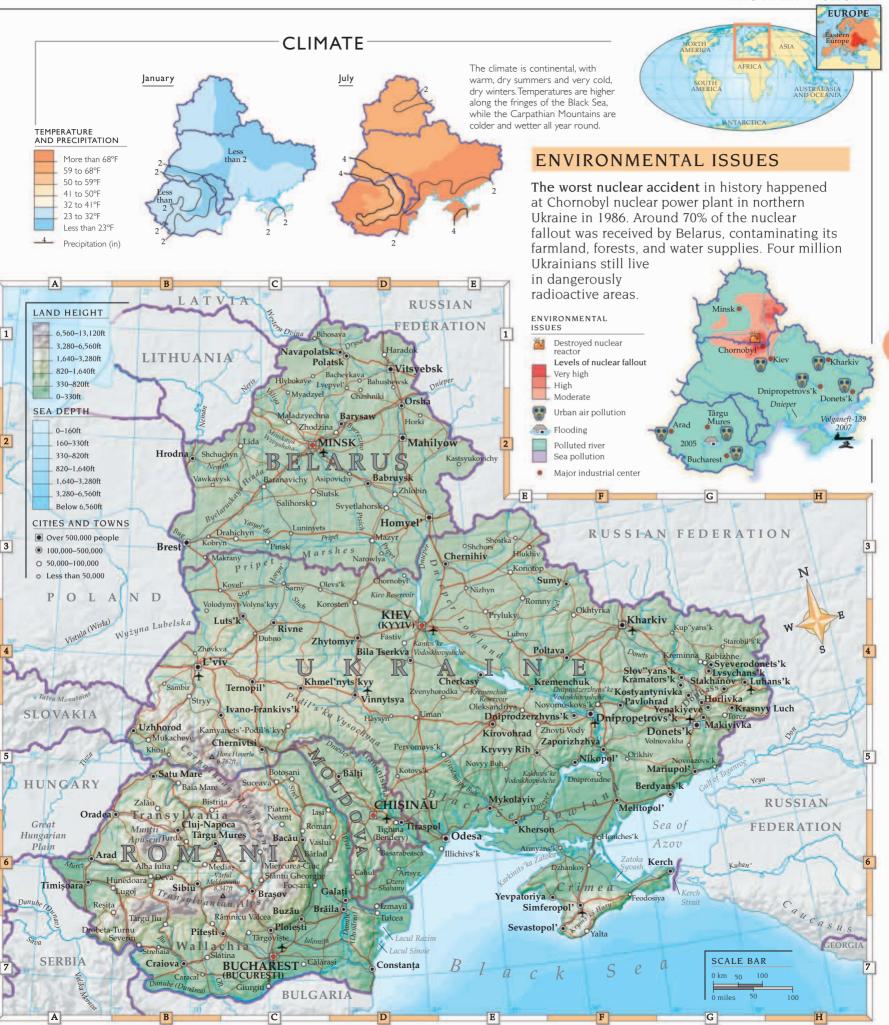
The Carpathians are the largest mountain range in Eastern Europe. They are a rich source of timber and minerals.

Dnieper (E5) and Dniester (D5) Rivers

The Dnieper and Dniester run south and east toward the Black Sea. They flow slowly across huge areas of low-lying land.

The Crimea (F6)

This peninsula divides the Sea of Azov from the Black Sea. The steep mountains of Kryms'ki Hory run along the southeastern coast of the Crimea.



EUROPEAN RUSSIA

RUSSIAN FEDERATION

European Russia is separated from the Asiatic part of the Russian Federation by the Ural Mountains. It is home to two-thirds of the country's population. Russia was the largest and most powerful republic of the communist Soviet Union, which collapsed in 1991. New businesses were set up when communism ended, but many old state industries closed down, causing unemployment and further hardship for many people.

INDUSTRY

Mining

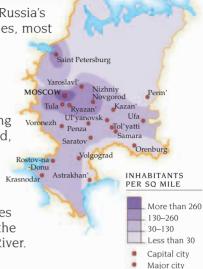
European Russia is rich in natural resources. Minerals are mined on the Kola Peninsula and in the Urals, while dense forests are felled and processed in many of the larger northern cities. The Volga basin is one of Europe's largest sources of oil and gas. Moscow and the cities near the Volga are centers of skilled labor for a wide range of manufacturing industries like cars, chemicals, and heavy engineering and steel production.

INDUSTRY Car manufacturing Oil and gas Chemicals Timber processing Engineering Major industrial center/area Iron and steel Major road Textiles

POPULATION

Three-quarters of European Russia's people live in towns and cities, most in a broad band stretching south from St. Petersburg to Moscow, and eastward to the Urals. The capital. Moscow, and St. Petersburg are very crowded cities. Living conditions there are cramped. with two families often sharing one apartment. The southeast is also heavily populated. Over 12 million

people live in the cities and towns that line the banks of the Volga River.



THE LANDSCAPE

European Russia lies on the North European Plain, a huge, rolling lowland with wide river basins. The northern half of the plain, which was once covered by glaciers, has many lakes and swamps. The Volga River drains much of the plain as it flows south to the Caspian Sea. The Caucasus and Ural Mountains form natural boundaries in the south and east.

Northern European Russia (C3)

Northern European Russia reaches into the Arctic Circle. It is a region of pine and birch forests, marshes, and tundra. There are also tens of thousands of lakes, including the biggest in Europe, Ladoga, which covers about 6,830 sq miles

Ural Mountains (E5)

The Ural Mountains run from north to south. stretching almost 2,500 miles.

FARMING AND LAND USE

Russia's best farmland lies within this region. Big crops of wheat, barley and oats, potatoes and sunflowers are produced in the fertile black soil that forms a thick

FARMING AND LAND USE Pigs

band across the country to the south of Moscow. The far north is cold and frozen. with bare mountains and tundra making cultivation impossible. Farther south there are extensive forests. and rough pastures that are used for herding and hunting.

Cattle Barren land Fishing Cropland Forest Reindeer Mountain region Sheep Pasture Cereals Tundra Root crops Wetland Sunflowers Major conurbation

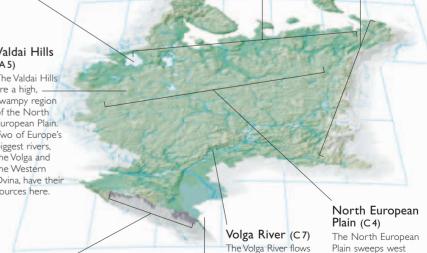
Timber

Valdai Hills (A5)The Valdai Hills are a high, swampy region of the North European Plain Two of Europe's biggest rivers. the Volga and the Western Dvina, have the sources here.

Lake Ladoga (B4)

Caucasus (A9) Caspian Sea (C9)

This massive barrier of mountains stretches from the Black Sea to the Caspian Sea. It includes El'brus, the highest peak in Europe, at 18,511 feet.



Plain sweeps west for 2,292 miles, making from the Ural Mountains, it Europe's longest all the way to the Rhine river and Russia's River in Germany. most important inland In European Russia it includes a number of waterway. It is used hill ranges, such as the for transportation and to generate hydro-Volga Uplands and the electric power. Central Russian Upland.



THE MEDITERRANEAN

The Mediterranean Sea separates Europe from Africa. It stretches more than 2,500 miles from east to west and is almost completely enclosed by land. Many great civilizations, including the Greek and Roman empires, grew up around the Mediterranean. It has been a crossroads of international trade routes for many centuries. More than 100 million people live in the 28 countries that border the sea, and their numbers are increased by the large crowds of tourists who regularly visit the area.

ENVIRONMENTAL ISSUES

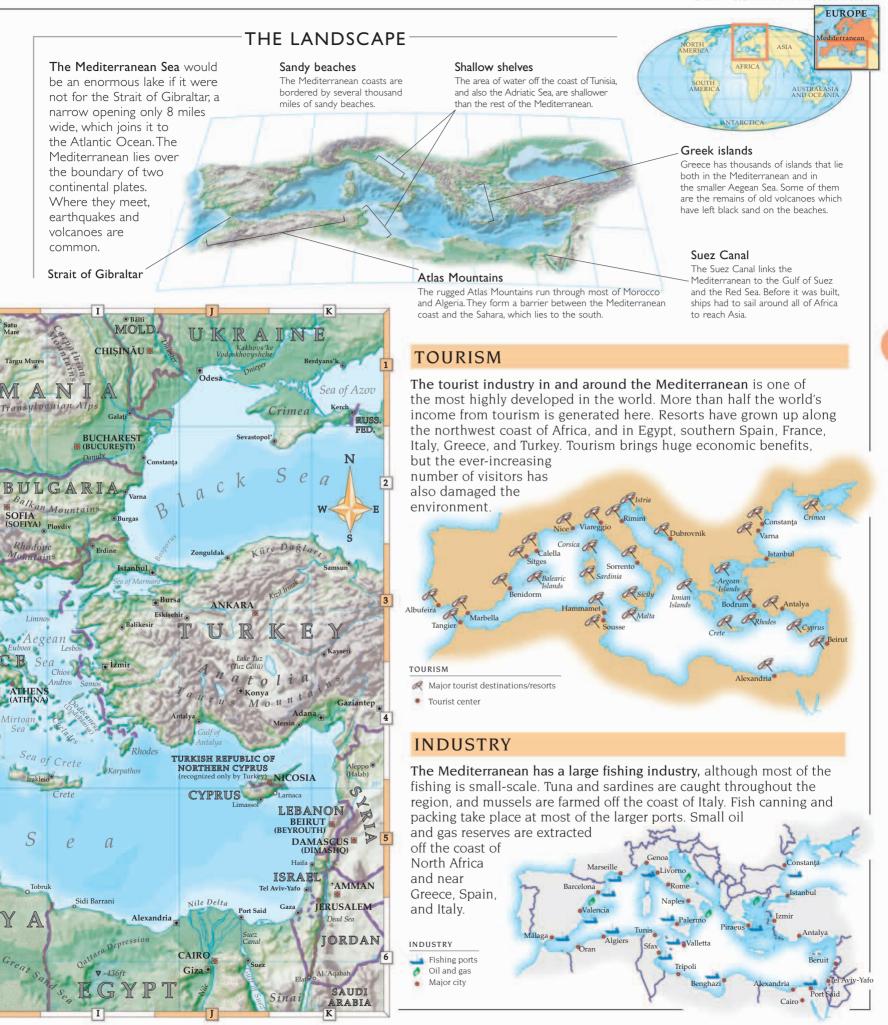
Mild water pollution

Severe water pollution

Water pollution is widespread in the Mediterranean, especially near the large coastal resorts where raw sewage and industrial effluent is pumped out to sea, and often ends up on the beaches.

Oil refining and oil spills have also increased pollution.

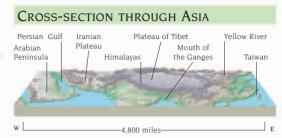




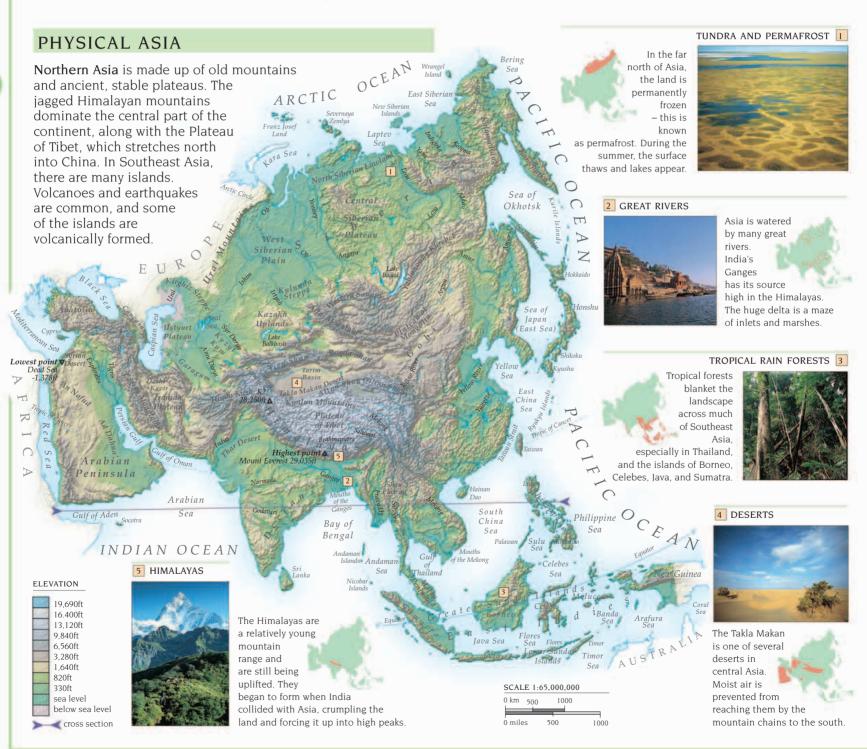
CONTINENTAL ASIA

Asia is the world's largest continent, and has the greatest range of physical extremes. Some of the highest, lowest, and coldest places on Earth are found in Asia: Mount Everest in the Himalayas is the highest, the Dead Sea in the west is the lowest, and the frozen wastes of northern Siberia are among the coldest. More people live in Asia than on any other

continent – 1.3 billion of them in China, and 1.2 billion in India.



The Arabian Peninsula and the mountainous Iranian Plateau are divided by the Persian Gulf, fed by the Tigris and Euphrates Rivers. Farther east, the land begins to rise, the mountains spreading north to the Plateau of Tibet, and south to the Himalayas. The plains to the south of the Himalayas are drained by the Indus and Ganges, and to the east of the Plateau of Tibet by the Yellow River.





ASIAN GEOGRAPHY

Asia's forbidding mountain ranges, barren deserts and fertile plains have affected the way in which people settled the continent. Intensive agriculture is found in the more fertile areas, and the largest concentrations of people grew up near fertile land, and close to great rivers. Asia's mineral wealth has brought people to the more inhospitable parts of the continent: the deserts of southwest Asia for oil, and frozen Siberia for oil, gas, and minerals.

MINERAL RESOURCES

Over half of the world's oil and gas reserves are in Asia, most importantly around the Persian Gulf, and in western Siberia. Coal in Siberia and China has provided power



INDUSTRY

Many people in Asia still rely on agriculture as a source of income, and some countries have very few industries. Heavy industry dominates eastern China and Russia, but Japan is the most industrially productive country. In recent years, booming "tiger" economies have developed in countries such as Taiwan, which border the Pacific Ocean.

GRORGIA

CYPRUS LEBANON SYRIA

> Arabian YEMEN Gulf of Aden

SRI LANKA

Mumbai (Bombay) is

FINANCE

India's leading industrial city, and has a thriving stock market. Modern office blocks stand close to sprawling slums.

INDUSTRIAL COMPLEXES



Noril'sk is one of several Soviet-era industrial complexes built in Russia, It is a processing centre for the rich mineral reserves found nearby

GNI per capita (US\$)

2.000-4.999 5 000-9 999 10.000-19.999 20.000-24.999 Above 25.000 Industrial center

Below 1 999

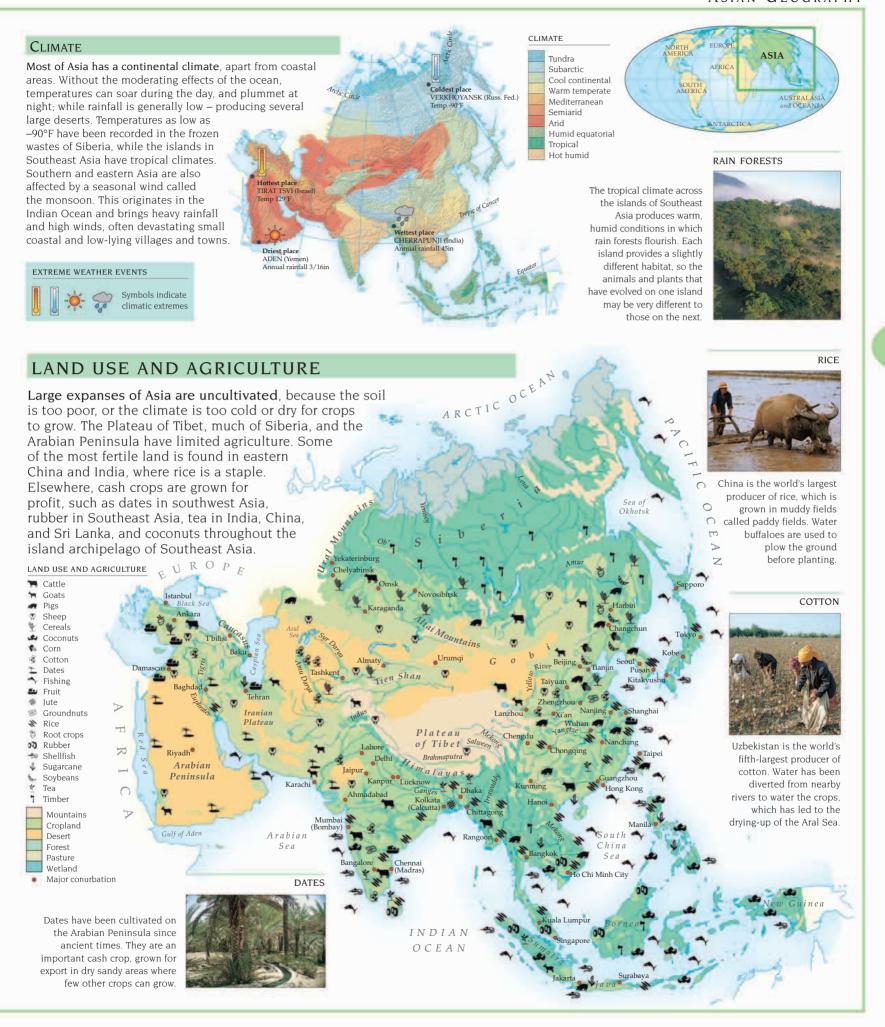
FEDERATION

CHINA

LAOS VIETNAM

cok CAMBODIA

Traditional industries and methods of working are still important to less industrialized nations. Here in Vietnam, sea water has been evaporated by the sun, and the salt is collected for market.



Kaliningrad

Belgorod

Krasnodar Volgograd

Stavropol

Nal'chik

Nal'chik Vladikavkaz Atyrau

TURKM

LAND HEIGHT

Above 13,120ft

6,560-13,120ft

3,280-6,560ft

1,640-3,280ft

820-1,640ft 330-820ft

0-330ft Below sea leve

Makhachkala

Rostov-na-Donu

Voronezh

Russia and KAZAKHSTAN

Russia lies partly in Europe but mostly in Asia. The land to the east of the Ural Mountains is called Siberia. This immense stretch of grasslands, thick, evergreen forest, and tundra is crossed by giant rivers. Vast areas of Siberia are almost untouched by human activity, yet in the industrial regions set up under communism (1922–1991), air, water, and soil are heavily polluted with harmful substances.

SVALBARD

North Cape

Archangel

Chelyabinsk

TAN

Zhezkazgan Kyzylorda

ASTANA Temirtau

Karaganda

Ust'-Kamenog

Taldykorgan

Along with the former Soviet state of Kazakhstan, Siberia is rich in a huge variety of minerals.

SWEDEN

Velikiy Novgorod Lake Onega

Ul'yanovsko

Saratov

Astrakhan'

SEA DEPTH

0 - 820 ft

820-1.640ft

1.640-3.280ft

3,280-6,560ft 6.560-9.840ft

9,840-13,120ft

Below 13,120ft

Cherepovets

Vologda Yaroslavl' Kineshma

Nizhniy Novgorod

Kazan, Glazov Solikamsk

Sterlitamak Ufa

Orenburg

INDUSTRY

The discovery of gold in the 19th century opened Siberia up to economic and industrial development. Later, vast reserves of oil, coal, and gas were found, especially in the west, which is now the main center for oil extraction. Gold and diamonds are mined in the east. In Kazakhstan, mining and other industries are growing



THE LANDSCAPE-

East of the Ural Mountains lies the West Siberian Plain – the world's largest area of flat ground. The plain gradually rises to the Central Siberian Plateau and then again to highlands in the southeast. Great coniferous forests called taiga stretch across most of this land. The far north of Siberia extends into

the Arctic Circle. Here the landscape is made up of frozen plains called tundra. Much of Kazakhstan is covered by huge rolling grasslands, or steppe. In the south are arid

Bering

Ostrov Karaginskiy

Ostrov Urup

Kuril'sk

Ostrov Iturun

Sakhalinsk

Yuzhno-

Petropavlovsk

Sea of

Okhotsk

Komsomol'

na-Amure

Khabarovsk

Ussuriysk

KOREA

Nakhodka

Vladivostok

NORTH (East Sea) Japan

Sakhalin

Ust'-Kamchatsl

sandy deserts.

snow of the Arctic, and the thick taiga forests which cover an area greater than the Amazon rain forest

The Caspian Sea (A5) The Caspian Sea covers

143.243 sa miles and is the world's largest expanse of inland water It is fed by the Volga and Ural Rivers, which flow in from the plains of the north.

West Siberian Plain (D4)

Tundra and taiga

Stubby birch trees, dwarf bushes, moss and lichen huddle close to the ground in

the frozen tundra wastes of northern Russia.

They lie between the permanent ice and

This vast, flat expanse is covered with a network of marshes and streams The Oh' River which winds its way north across the plains, is frozen for up to half the year.

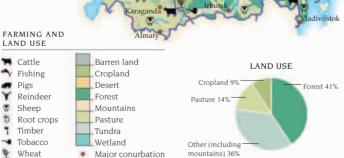
Lake Baikal (F5)

Lake Baikal is the deepest lake in the world, and the largest freshwater one - it is more than I mile deep and covers 12,500 sq miles. It is fed by 336 rivers and contains around 20% of all the fresh water in the world.

FARMING AND LAND USE

Siberia's harsh climate has restricted farming to the south, where there are a few areas warm enough to grow cereal crops such as wheat and oats and to raise cattle on the small pockets of pasture. The rest of the region is used for hunting, herding reindeer, and forestry – the taiga forests contain the world's largest timber reserves. In Kazakhstan, big herds of cattle, goats,





CLIMATE Russia and Kazakhstan have continental climates, and their distance from seas and oceans means that January temperatures fluctuate wildly, both daily and seasonally. Temperature: in eastern Siberia have been known to reach -90°F. TEMPERATURE AND PRECIPITATION More than 86°F 77 to 86°F 68 to 77°F 59 to 68°F 50 to 59°F 41 to 50°F 32 to 41°F 23 to 32°F 14 to 23°F 5 to 14°F Less than 5°I Precipitation (in)

POPULATION

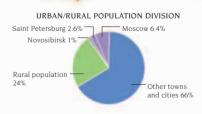
Siberia has some of the world's largest areas of uninhabited land – the bitingly cold climate and harsh living conditions have kept the population small. The industrial cities in the west have the most

people. Despite its huge size, Kazakhstan has only 16 million people, just over half live





INHABITANTS



ENVIRONMENTAL ISSUES

Decades of industrial development during the communist regime brought new industries to undeveloped parts of the region, such as Siberia. This industrial development has now led to environmental degradation on a massive scale: river, air, and land pollution in Russia is among the worst in the world.



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TURKEY AND THE CAUCASUS

ARMENIA, AZERBAIJAN, GEORGIA, TURKEY

Turkey and the Caucasus lie partly in Europe, and partly in Asia. Turkey has a long Islamic tradition, and although the country is now a secular (nonreligious) one, most. Turks are Muslims. Turkey is becoming more industrialized, although one third of its workforce is still employed in agriculture. The countries of the Caucasus were under Russian rule for 70 years, until 1991. They are home to more than 50 different ethnic groups.

INDUSTRY

Turkey has a wide range of industries, including tourism and growing trade links with Europe. Azerbaijan has large oil reserves and is able to export oil. The other states use imported fuel and hydro-electric power generated by their rushing rivers. Georgia produces industrial machinery and chemicals. Armenia's economy is recovering from the conflict with Azerbaijan.

FARMING AND LAND USE FARMING AND LAND USE Livestock With its warm climate and good soils. Turkey is able Fishing to produce all of its own food. Cattle and goats are Cotton Fruit kept on the central plateau. Along the Mediterranean Hazelnuts coast, farmers grow olives, figs, grapes, and peaches. Root crops Hazelnuts are cultivated along the shores of the Black Tobacco Vinevards Sea. Across the Caucasus, the limited fertile land is used to grow wine grapes, tobacco, and cotton. Cropland Forest Major conurbation INDUSTRY LAND USE Car manufacture Oil field Cement manufacturing Tourism Major industrial Chemicals center / area Engineering Major road Food processing Textiles THE LANDSCAPE Anatolia A huge semiarid plateau called Anatolia runs Anatolia has large areas of soft limestone across the center of Turkey. It is rimmed by rock. Over a long period of time, layers several mountain ranges along the Black Sea of rock have been worn away by water coast and the steep Taurus Mountains in the to produce strange landscapes with caves and tall, isolated rock pinnacles. south. A narrow strip of lowland separates the Caucasus and the Lesser Caucasus mountains Caucasus Mountains (H I) in the northeast. Lesser Caucasus (H2)

Between two continents
The city of Istanbul (B2) in Turkey is
divided in two by a narrow channel of
water called the Bosporus. One part of
the city is in Europe, the other in Asia.

The two parts are linked by bridges.

Taurus Mountains (D 5) The Taurus Mountains

The laurus Mountains were formed around 60 to 65 million years ago. Weathering has formed caves and deep gorges.

Lake Van (H 4)

Lake Van is one of the shallow salt lakes found in Anatolia. Salt lakes develop in hot, dry areas where large quantities of water evaporate, leaving behind salty deposits.

Earthquakes In 1988, 25,000 people were killed in an earthquake in the west of Armenia



STRUCTURE

OF INDUSTRY

POPULATION ENVIRONMENTAL ISSUES Over 75% of Turks live in large towns or Turkey has built many large dams to use water from rivers – especially the cities, mostly in the western half of the country. The eastern and southeastern Euphrates – to irrigate its farmland. parts of Anatolia are home to the Syria and Iraq, which lie downstream, Kurdish people. The Caucasian republics have opposed the dams, because they will have less water flowing into their became more industrialized under countries. The safety of old-style Russian rule, and today, two thirds of **CLIMATE** nuclear plants such as Metsamor in their people live in urban places. Winters are coldest in the Caucasus Armenia has caused concern. Mountains and in Anatolia, while the shores of the Mediterranean and January TBILISI Black Seas remain mild. Summers are hottest around the edge of the Mediterranean and near Turkey's YEREVAN border with Syria ANKARA and Irag. TEMPERATURE AND PRECIPITATION IIRBAN/RIIRAL More than 86°F POPULATION DIVISION 77 to 86°F ENVIRONMENTAL ISSUES 68 to 77°F INHABITANTS PER SQ MILE 59 to 68°F Earthquake zone 50 to 59°F Major dam 41 to 50°F More than 520 Unstable nuclear power station 32 to 41°F 260-520 23 to 32°F Urban air pollution 130-260 towns and cities 55.8% 14 to 23°F Less than 130 Sea pollution Less than 14°F Capital city Major industrial center Major city Rural population Precipitation (in) E G N SCALE BAR Caspian Sokhumi S e a P'ot' K'obulet' Bat'umi Trabzon ANKARA Kalecik Doğubayazıt Polatlı Konya LAND HEIGHT SEA DEPTH Kahramanmaraş Above 13,120ft 0-160ft Viranşehir 6,560-13,120ft 160-330ft 3,280-6,560ft 330-820ft CITIES AND TOWNS 1,640-3,280ft 820-1,640ft Over 500,000 people 820-1,640ft 1,640-3,280ft İskenderun R 100,000-500,000 330-820ft 3,280-6,560ft 0 50,000-100,000 0-330ft Below 6,560ft Antakva o Less than 50,000 Below sea level D

Southwest Asia

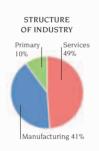
BAHRAIN, IRAN, IRAQ, ISRAEL, IORDAN, KUWAIT, LEBANON, OMAN, QATAR, SAUDI ARABIA, SYRIA, UNITED ARAB EMIRATES, YEMEN

Most of southwest Asia is barren desert, vet the world's first cities originated here over 5,000 years ago. It was the birthplace of three major religions: Islam, Judaism, and Christianity. In recent years, the discovery of oil has brought great wealth to much of the region, but it has also been torn by internal conflicts and wars between neighboring countries. Most people here are Muslims, although Israel is the world's only Jewish state.

INDUSTRY

Oil has made the previously poor Arab states very wealthy. It and natural gas continue to be the main sources of income for many of the countries here. Other industries are being developed to support the region's economies when these resources run out. Iran is famous for its carpets, which are woven from wool or silk.

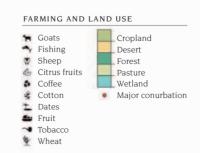
INDUSTRY Cement manufacturing Food processing Iron and steel Oil refining Textiles Oil and gas Finance Major industrial Major road





FARMING AND LAND USE

The best farmland is found along the Mediterranean coast and in the fertile valleys of the Tigris, Euphrates and Jordan Rivers. Wheat is the main cereal crop, and cotton, dates, and citrus and orchard fruits are grown for export. Elsewhere, modern irrigation techniques have created patches of fertile land in the desert. Dates, wheat, and coffee are cultivated in the oases and along the Persian Gulf coast.



ENVIRONMENTAL ISSUES

Water shortages are common because of the hot, dry climate and the lack of rivers. Desalination plants convert seawater into freshwater, and are found along the Red Sea and Persian

Gulf coasts. Lack of water also makes the risk of desertification greater. Iran has had many catastrophic earthquakes; in 2003 an earthquake in Bam killed 26,000 people.

ENVIRONMENTAL ISSUES



Risk of desertification Sea pollution Major industrial center

point on the Earth's

sustain any life.

surface - its shores lie

1,378 ft below sea level. It

is also the world's saltiest

body of water, and cannot

THE LANDSCAPE

Great desert plateaus, both sandy and rocky, cover much of southwest Asia. On the enormous Arabian Peninsula, which covers an area almost the size of India, narrow, sandy plains along the Red Sea and south coast rise to dry mountains. In the center is a vast, high plateau that slopes gently down to the flat shores of the Persian Gulf. The mountainous areas of Iran experience frequent earthquakes.

Wadis

Valleys or riverbeds, called wadis, are found in the Saudi Arabian desert. They are usually dry, but after heavy rains, they are briefly filled by fast flowing rivers.

Syrian Desert (B2)

The Syrian Desert extends from the lordan valley in the west to the fertile plains of the Tigris and Euphrates Rivers in the east. It is mainly a rocky desert, because the sand has

Oases

Oases are areas within a desert where water is available for plants and human use. They are usually formed when a fault, or split, in the rock allows water to come to the surface. Oases can be no bigger than a few palm trees or cover several hundred sq miles.

steeply from the

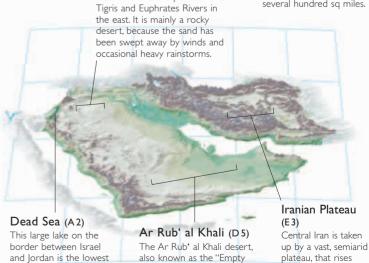
coastal lowlands

bordering the Persian

Gulf. It is ringed by

Elburz mountains.

the high Zagros and



Quarter," is the largest

uninterrupted stretch of

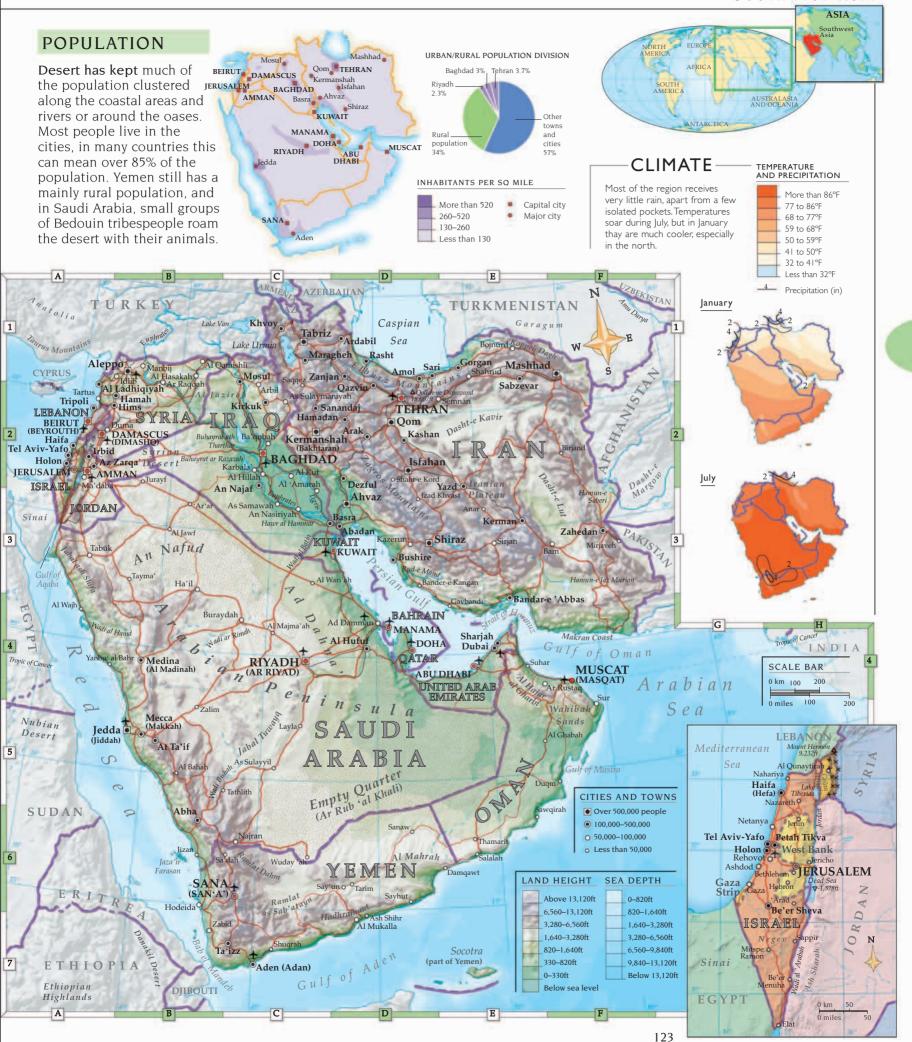
sand on Earth. It covers

some 250,000 sq miles and

is one of the world's driest

and most hostile deserts.

LAND USE (including desert) Pasture



CENTRAL ASIA

AFGHANISTAN, KYRGYZSTAN, TAIIKISTAN, TURKMENISTAN, UZBEKISTAN

Central Asia is a land of hot, dry deserts and high, rugged mountains. It lies on the ancient Silk Road, an important trade route between China and Europe for over 400 years. until the 15th century. All of the countries here, except for Afghanistan, were part of the Soviet Union from the 1920s until 1991, when they gained independence. Since then, their people have reestablished their local languages and Islamic faith, which were restricted under Russian rule.

INDUSTRY

Fossil fuels, especially coal, natural gas, and oil, are extracted and processed throughout Central Asia. Agriculture supplies the raw materials for many industries, including food and textile



Major industrial

Services 32%

POPULATION

Textiles

Oil and gas

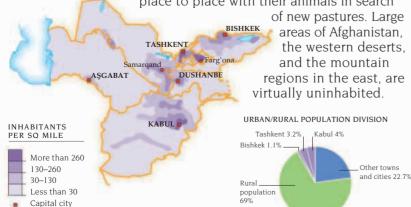
Mining

Chemicals

Engineering

Food processing

The peoples of Central Asia are mostly rural farmers, living in the river valleys and in oases. There are few large cities. A few still lead a traditional nomadic lifestyle, moving from place to place with their animals in search



FARMING AND LAND USE

Farming is concentrated around the fertile river valleys in the east, like the Fergana Valley. A variety of cereals and fruits – including peaches, melons, and apricots - are grown. In drier areas, animal breeding is important, with goats, sheep, and cattle supplying wool, meat, and

hides. Big crops of cotton. which is a major export, are produced on land irrigated by the Amu Darya River. FARMING AND LAND USE T Cattle Cropland T Goats Desert Sheep Mountains Cotton Pasture Fruit Wetland Opium poppies Major conurbati Tobacco Wheat LAND USE FEDER Forest 5% Cropland 9%

(including mountains

THE LANDSCAPE

Pasture 51%

river (E3)

Pamirs (G4)

Two of the world's great deserts, the Garagum and the Kyzyl Kum, cover much of the western portion of Central Asia. In the east, a belt of high mountain ranges - the Hindu Kush, the Tien Shan, and the Pamirs – tower above the land. Few rivers cross the deserts, apart from the Amu Darya, which flows from the Pamirs to the shrinking Aral Sea.

Aral Sea (DI) Garagum (D3) The Aral Sea was once the The sandy desert of the fourth largest lake in the Garagum occupies over world, but it has shrunk by 70% of Turkmenistan. 75% since 1960. Diversion Its surface consists of of its water for irrigation has wind-shaped dunes made the lake shallower, so and depressions. Human its waters evaporate faster settlement is limited to the desert's fringes. Tien Shan (H2) Amu Darya

Hindu Kush

(G4)

The Pamirs lie mainly in Tajikistan. Their highest point, at 24,590 ft,

is Qullai Ismoili Somoni, previously known as Communism Peak

because it was the highest peak in the former Soviet Union.

Fergana Valley (G3)

ZERBAIJAN

Stresses and strains in the Farth created the Fergana Valley, a deep depression encircled by high mountains. The valley's fertile soils are irrigated by water from the Syr Darya River, and underground sources

Major city



South Asia

BANGLADESH, BHUTAN, INDIA, NEPAL, PAKISTAN, SRI LANKA

South Asia is a land of many contrasts. Its landscape ranges from the mighty peaks of the Himalayas in the north through vast plains and arid deserts, to tropical forests and palm-fringed beaches in the south. More than one-fifth of the world's people live here, and a long history of foreign invasions has left a mosaic of vastly different cultures, religions, and traditions and thousands of languages and dialects.

Over 60% of the population is involved in agriculture, but most farms are small and produce only enough food to feed one family. Grains are the staple food crops – rice in the wetter parts of the east and west, corn, and millet on the Deccan plateau, and wheat in the north. Groundnuts are widely grown as a source of cooking oil. Cash crops include tea. which is grown on plantations, and jute. FARMING AND LAND USE

FARMING AND LAND USE

INDUSTRY

Industry has expanded in India in recent years. In the cities a variety of goods are produced and processed, including cars, airplanes, chemicals, food, and drink. Service industries such as tourism and banking are also growing. Elsewhere, small-scale cottage industries serve the needs of local people, but many products, mainly silk and cotton textiles, clothing, leather, and jewelry, are also exported.

STRUCTURE OF INDUSTRY INDUSTRY Aerospace Mining High-tech industry Car manufacture Chemicals Finance Electronics Tourism Engineering Major industrial Food processing Iron and steel Major road Manufacturing 28% Textiles

POPULATION

THE LANDSCAPE

Other 24%

A massive, towering wall of snow-capped mountains stretches in an arc across the north, isolating South Asia from the rest of the continent. The huge floodplains and deltas of the Indus, Ganges, and Brahmaputra Rivers separate the mountains from the rest of the peninsula: a great rolling plateau, bordered on either side by coastal hills called the Eastern and Western Ghats.

Eastern

Ghats (E5)

Himalayas (E2)

The Himalayas are the highest mountain system in the world. They were formed about 40 million years ago when two of the Earth's plates collided, thrusting up huge masses of land

creating stepped valleys called traps

Mount Everest (F3)

LAND USE

Cropland 50%

The northern ranges of the Himalayas average 23,000 ft in height. They include the highest point on Earth, Mount Everest on the Nepal-China border which soars to 29.035 ft.

Most of South Asia's people live in villages scattered KATHMANDU THIMPHU across the fertile river floodplains, in mountain valleys, or along the coasts. Ahmadabad but increasing numbers are migrating to the cities in search of work. Overcrowding is a serious problem in both rural and urban areas; in many cities. thousands of people are forced to live in slums or on the streets URBAN/RURAL POPULATION DIVISION INHABITANTS Kolkata 1% PER SQ MILE Mumbai 1.2% Delhi 0.8% More than 520 260-520

population 74%

Other towns

Western Ghats (C5) The Western Ghats run continuously along the Arabian Sea coast. The lower Eastern Ghats are interrupted by rivers that follow the gentle slope of the Deccan Deccan plateau (D5) plateau and flow across This giant plateau makes up most broad lowlands into the of central and southern India. Bay of Bengal. This is one Its volcanic rock has been deeply of the wettest regions in cut by rivers such as the Krishna.

Cattle

Fishing

Goats

Cereals

Iute

Rice

Thar Desert (C3)

The border between India and Pakistan runs

through the arid, sandy

Thar Desert

Chennai

Groundnuts

Cropland

Desert

Forest

Pasture

Wetland

Major conurbation

Bangladesh (G3) Much of Bangladesh lies in

an enormous delta formed by the Brahmaputra and Ganges Rivers. During the summer monsoon, the rivers become swollen by the torrential rains - and meltwater from the Himalayas - and the delta floods. Over the years, millions of people have drowned or been made homeless by heavy flooding.

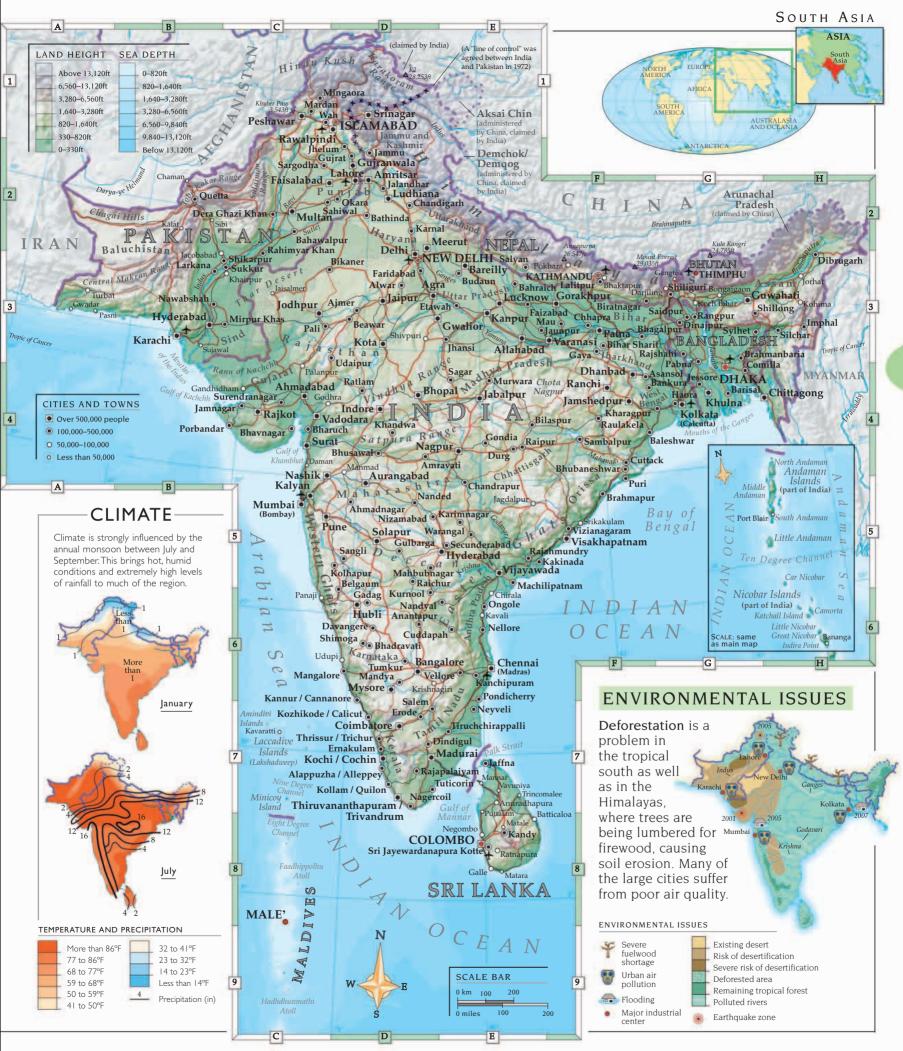
130-260

Less than 130

Capital city

Major city

ISLAMABAD



EAST ASIA

CHINA, MONGOLIA, TAIWAN

China is the world's fourth-largest country and its most populous – over 1.3 billion people live there. Under its communist government, which came to power in 1949. China has become a major industrial nation, but most of its people still live and work on the land as they have for thousands of years. Taiwan also has a booming economy and exports its products around the world. Mongolia is a vast, remote country with a small population, many of whom are nomads.

INDUSTRY

Chemicals, iron and steel, engineering, and textiles are the main industries in China's east coast cities, and in industrial centers

like Shenyang. Shanghai, Hong Kong, and Beijing are also important financial centers. In the interior, large deposits of coal support the heavy industries in major cities such as Chengdu and Wuhan. Taiwan specializes in textiles and shoe manufacture, along with electronic goods. Mongolia's economy is mainly agricultural.

INDUSTRY Aerospace Shipbuilding Car manufacture Textiles Chemicals Coal Electronics Mining Electronic goods Finance Engineering Major industrial Food processing Iron & steel Major road

STRUCTURE OF INDUSTRY Manufactui Primary 13%

FARMING AND LAND USE

Tobacco

Cropland

Mountain region

Major conurbation

Wheat

Desert

Forest

Pasture



FARMING AND LAND USE

Fishing

Pigs

Sheep

Corn

Fruit

N Rice

Cotton

Sovbeans

Sugarcane

China is unsuitable for farming. Either the soils and climate are poor, or the landscape is too mountainous. In the north and west, most farmers make their living by herding animals. On the fertile eastern plains, sovbeans, wheat, corn, and cotton are grown. Farther south, rice becomes the main crop, and pigs are raised in large numbers.



THE LANDSCAPE

China's landscape is divided into three areas. The vast Plateau of Tibet in the southwest is the highest and largest plateau on Earth. It contains both dry deserts and pockets of pasture surrounded by high mountains. Northwest China has dry highlands. The great plains of eastern China were formed from soils deposited by rivers like the Yellow River over thousands of years. Most of Mongolia is dry, grassland steppe and cold, arid desert.

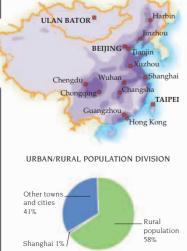
Tien Shan mountains (B2)

The Tien Shan, or "Heavenly Mountains" reach heights of 24,419 ft. They surround fields of permanent ice and spectacular glaciers.

Gobi (E2) and Takla Makan (B3) deserts

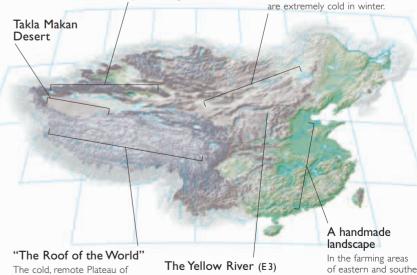
The arid landscapes of the Gobi and Takla Makan deserts are made up of bare rock surfaces and huge areas of shifting sand dunes. They are hot in summer, but unlike most other deserts,

POPULATION



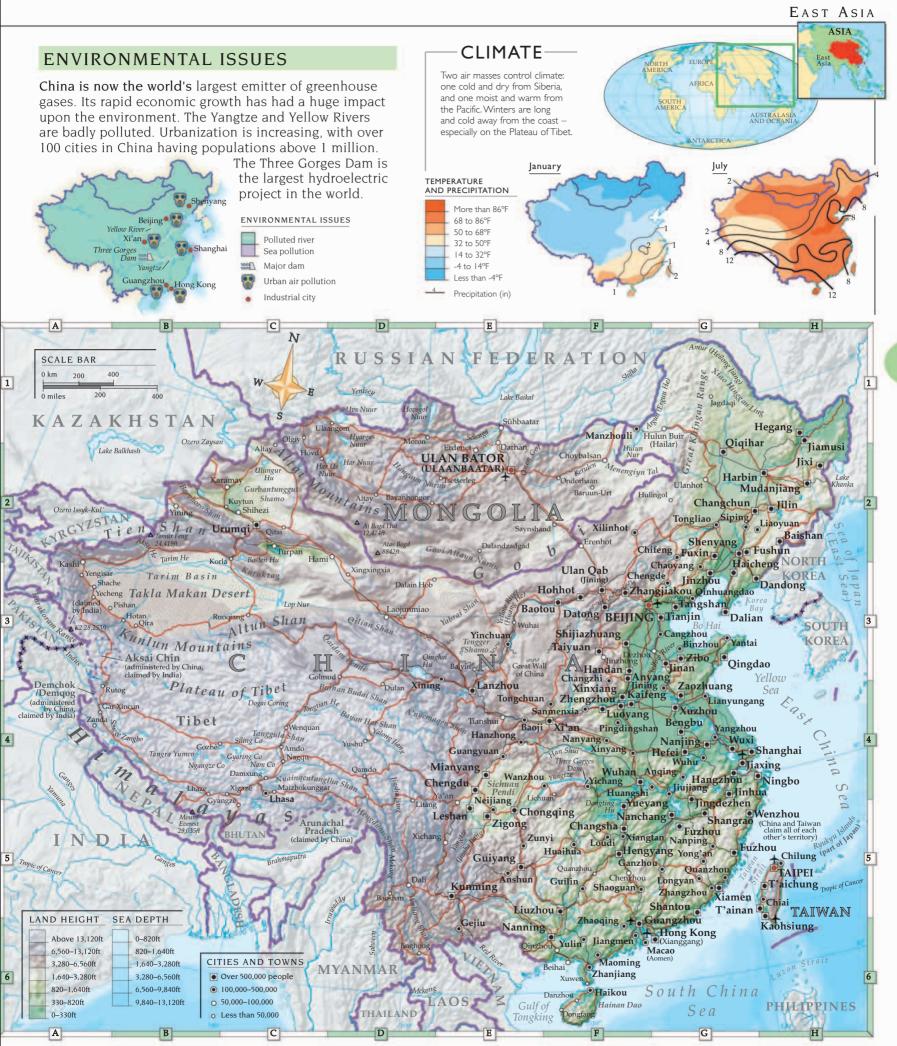
Most of China's people live in the eastern part of the country. where the climate, landscape and soils are most favorable Urban areas there house more than 250 million people, but almost 60% of the population lives in villages and farms the land. Taiwan's lowlands are very densely populated. In Mongolia, one third of the people live in the countryside.

INHABITANTS PER SQ MILE More than 520 Capital city 260-520 Major city 130-260 Less than 130



Tibet averages 13,000 ft in height. Many of China's great rivers have their sources here. The world's highest human settlement, a town called Wenguan, is found in the east of the plateau. It lies 16,729 ft above sea level.

The Yellow River (Huang He) is the world's muddiest river, carrying hundreds of truckloads of sediment to the sea every minute. The river has burst its banks many times throughout history, causing enormous damage and claiming millions of human lives. of eastern and southern China, terraces have been carved into the hillsides to make them flat enough to grow rice and other crops. This method of farming has been used for over 7,000 years.



Southeast Asia

BRUNEI, CAMBODIA, EAST TIMOR, INDONESIA. LAOS. MALAYSIA. MYANMAR, PHILIPPINES, SINGAPORE, THAILAND, VIETNAM

Southeast Asia is made up of a mainland area and many thousands of tropical islands. The region has great natural wealth – from precious stones to oil – and has recently experienced fast industrial growth. Some countries here, especially Singapore and Malaysia, have become prosperous. but Laos and Cambodia remain poor and are still recovering from years of terrible warfare.

ENVIRONMENTAL ISSUES

In Myanmar, Malaysia, and Indonesia. ancient rain forests are being cut down faster than they can grow back. On December 26th, 2004 a tsunami devastated the west of the region, it is estimated that over 225,000 people died around the

ENVIRONMENTAL ISSUES Urban air pollution Deforested area Remaining tropical forest Major industrial center

Hinthada Bago Rangoon

Andaman

Nicobar Islands

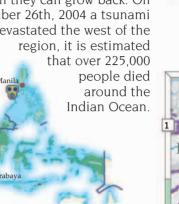
Bandaaceh

(part of India)

Pathein Mawlamyine

Kyaikka

Pematangsianta



POPULATION

On the mainland, the population is concentrated in the river valleys, plateaus, or plains. Upland areas are NAY PYI TAW HANOI
VIENTIANE
Da Nang MANILA inhabited by small groups of hill peoples. Most people still live in rural areas, but the cities are growing fast. In Indonesia PHNOM PENH BANGKOK and the Philippines, the population is Ho Chi Minh unevenly distributed. Some islands, such as Java, are densely settled; PUTRAIAYA others are barely occupied.

THE LANDSCAPE

On the mainland, a belt of mountain ranges,

cloaked in thick forest, runs north-south. The

mountains are cut through by the wide valleys

these rivers have deposited sediment, forming

the southeast of the mainland lies a huge arc

of over 20,000 mountainous, volcanic islands.

of five great rivers. On their way to the sea,

immense, fertile flood plains and deltas. To

INHABITANTS PER SQ MILE More than 520 Capital city 260-520 Major city 130-260

Less than 130

URBAN/RURAL POPULATION DIVISION Other towns and cities 58 59 population

INDUSTRY

Industries based on the processing of raw materials, like metallic minerals, timber, oil and gas, and agricultural produce, are important here, but manufacturing has grown dramatically in recent years. Many foreign firms,

attracted by low labor costs, have invested in the region. Malaysia and Singapore are major producers of electronic goods like disk drives for computers.



Manufacturing 36% Timber

Asian Tsunami (A6)

On December 26th, 2004 the second largest earthquake ever recorded occured under the sea off the west coast of Sumatra. This triggered a huge Tsunami wave, up to 100 ft high in places, that devastated coastal communities causing the deaths of over 225,000 people in eleven countries.

Borneo (D7)

Borneo is the world's third-largest island, with a total area of 292,298 sq miles. Lying on the Equator and in the path of two monsoons, the island is hot and one of the wettest places on Earth. The landscape contains thickly forested central highlands and swampy lowlands

Philippines (E4) The Philippines' 7,000 islands are mountainous and volcanic with narrow coastal plains

Irian Jaya (17) Irian Jaya is a province of

Indonesia. Its dense rain forests are some of the last unexplored areas on Earth and are inhabited by many rare plant and animal species.

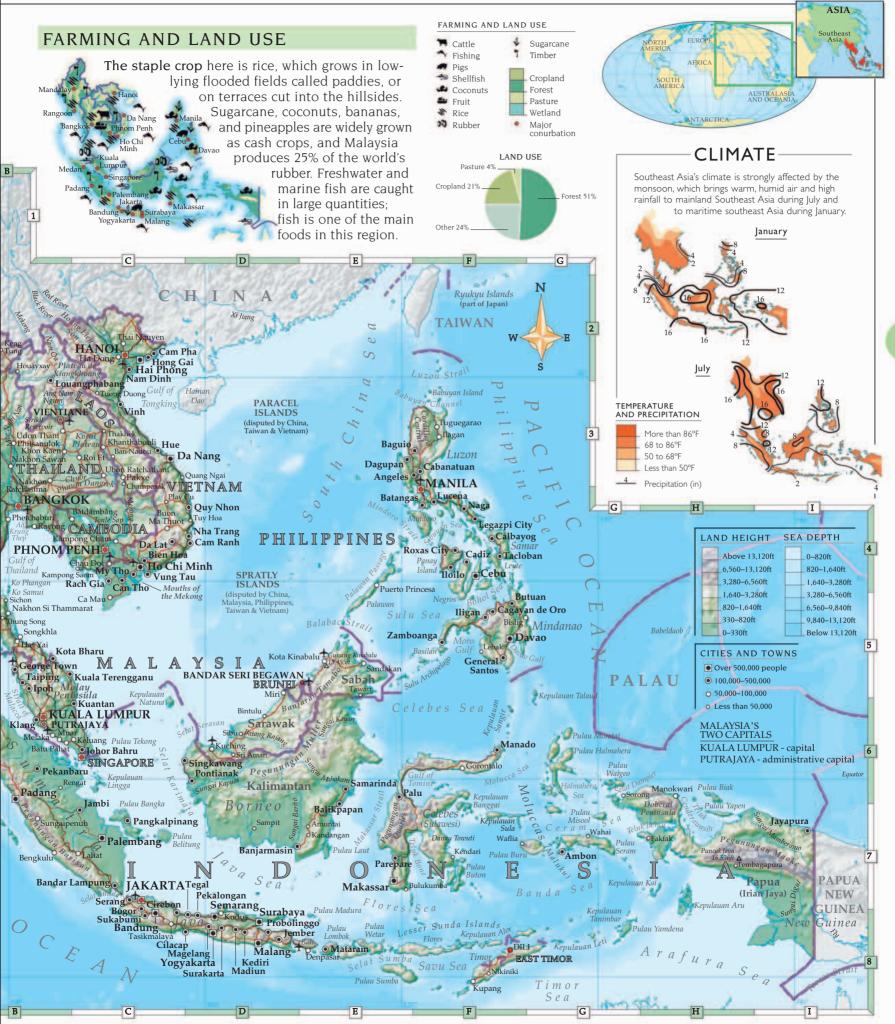
Volcanoes

Indonesia is the most active volcanic region in the world. Java alone has over 50 active volcanoes out of the country's total of more than 220.

Indonesia (C7)

Indonesia is an archipelago of 13,677 islands, scattered over almost 3.110 miles. The islands lie on the boundary between two of the Earth's tectonic plates and frequently experience earthquakes.





JAPAN AND KOREA

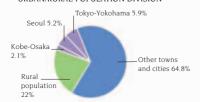
IAPAN. NORTH KOREA. SOUTH KOREA

Japan is a curved chain of over 4,000 islands in the Pacific Ocean. To the west, Korea juts out from northern China. Iapan has few natural resources, but it has become one of the world's most successful industrial nations, due to investment in new technology and a highly efficient workforce. North Korea is a communist state with limited contact with the outside world, while South Korea is a democracy with major international trade links.

FARMING AND LAND USE Modern farming methods allow Japan to grow much of its own food, despite a shortage of farmland. Rice is the main crop grown throughout the region. Japan has a large fishing fleet: the Japanese eat more fish than any other nation. In North Korea, farming is controlled by the government. LAND USE Pasture 1% FARMING AND LAND USE Cropland Cattle Tea Fishing Tobacco Pigs Other Cropland (including



mountains



Forest

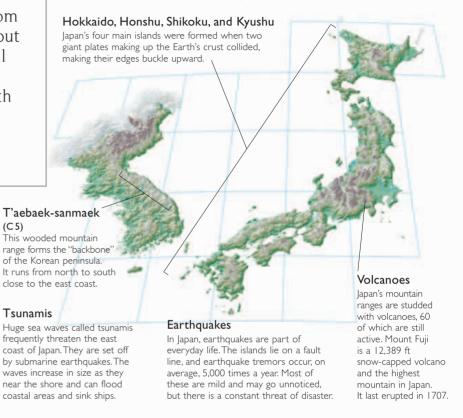
Pasture

Major conurbation



THE LANDSCAPE-

Most of lapan is covered by forested mountains and hills, among which are many short, fast-flowing rivers and small lakes. Only about a quarter of the land is suitable for building and farming, and new land has been created by cutting back hillsides and reclaiming land from the sea. North and South Korea are mostly mountainous, with some coastal plains.



INDUSTRY

Japan is a world leader in high-tech electronic goods like computers, televisions and cameras, as well as cars. South Korea also has a thriving economy. It produces ships, cars, high-tech goods, shoes, and clothes for worldwide export. Both countries have to import most of their raw materials and energy. North Korea has little trade with other countries but it is rich in minerals such as coal and silver. STRUCTURE OF INDUSTRY INDUSTRY Car manufacture Mining Finance Engineering Hi-tech Food processing Research & Development Iron & steel Shipbuilding Major industrial Textiles Major road Manufacturing 28%

Fruit

Rice

Soybeans



AUSTRALASIA & OCEANIA PACIFIC ISLANDS Micronesia is one of the Pacific's island nations, consisting of a group of volcanic islands, low-lying Australasia and Oceania encompasses the ancient coral reefs, and landmass of Australia, the islands of New Zealand, lagoons. Many of the smaller Pacific islands and the scattering of thousands of small are only a few feet islands that stretch out into the Pacific above sea level. Ocean. Indigenous peoples of the South Pacific, such as the Aborigines, Maoris, Polynesians, Micronesians, and Melanesians, inhabit the region. In Australia and New Zealand, they live alongside people of European origin who settled HAGÅTÑA in the 18th century, and more recent arrivals from East and Southeast Asia. POPULATION LAND USE AND AGRICULTURE Capital cities MELEKEOK Above 500.000 Much of the center of Australia is a dry, 100 000 to 500 000 barren desert and unsuitable for agriculture. 50.000 to 100.000 PALAU At its fringes, sheep farming is practiced, and Below 50 000 both Australia and New Zealand are massive State capitals producers of wool and lamb. The Pacific islands Above 500,000 100,000 to 500,000 export many exotic fruits and crops – especially 50 000 to 100 000 oil palms and coconut palms. Oil from the BORDERS palms is processed and sold as well as the fruits themselves. Small-scale fishing is common, full international borde New Guinea New Zealand and Australia indication of maritime but larger operations are run by foreign fishing are the world's biggest fleets, especially the Japanese, who fish for tuna indication of maritime producers of wool. In New dependent territory exten in the deeper waters of the Pacific. PORT MORESBY Zealand, sheep outnumber state border people by 12 to 1. SCALE 1:37,250,000 U Gibson Christchurch COCONUTS LAND USE AND AGRICULTURE Coconuts are grown Vineyards throughout the islands Sheep Wheat Coconuts of the Pacific, and Cropland Coffee the white flesh is dried Desert

in the sun to produce

valuable export crop

copra. Copra is a

for many islands.

Fishing

Shellfish

Timber

Sugarcane

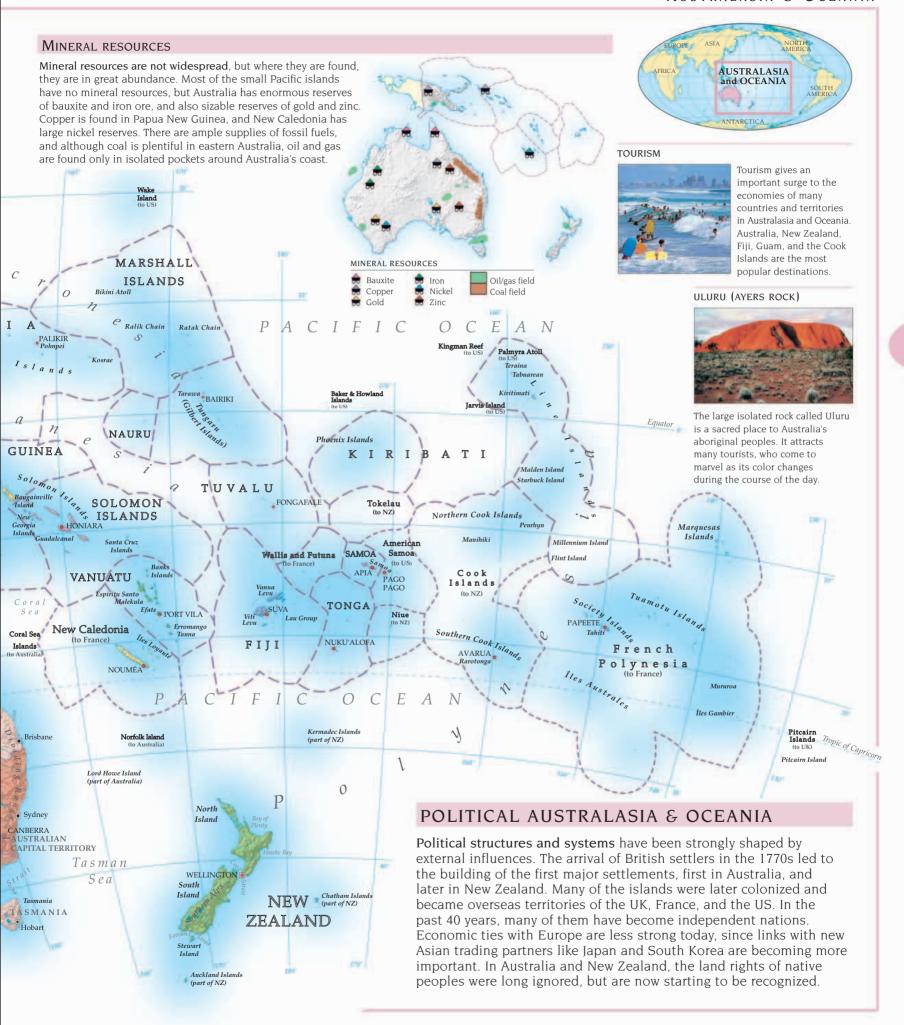
Fruit

Forest

Pasture

Mountain region

Major conurbation



Australia

Australia is the world's sixth-largest country, and also the smallest, flattest continent, with the lowest rainfall. Most Australians are of European. mainly British, origin. However, since 1945 almost six million settlers from more than 170 countries have made Australia their home. The Aboriginal people, now only a tiny minority, were the first inhabitants. Recently, there have been several moves to restore their ancient lands.

FARMING AND LAND USE

Away from the coasts, much of the land is too dry for agriculture. Fields of sugarcane grow close sville the east coast, and grapes for the thriving wine industry are cultivated in the south and west, along with wheat. Vast numbers of cattle and sheep are raised for their meat and wool – both of which are major exports. They are grazed in the desert, on huge farms called "stations," and in more fertile areas.



particularly tourism, are growing fast: Australia's sunshine and dramatic scenery are attracting an increasing number of overseas visitors. STRUCTURE OF INDUSTRY INDUSTRY

Most of Australia is dry, flat, and barren; all of the wetter, fertile land is found along its coastline. Huge sun-baked deserts, fringed by semiarid plains of scrub and grassland cover most of the west and center of the country. In the east, the land rises to the highlands of the Great Dividing Range, which run the whole length of the east coast. The tropical north coast has rainforests and mangrove swamps.

Blue Mountains

The Blue Mountains lie

toward the southern

Dividing Range. They

get their name from

the blue haze of oil

end of the Great

Food processing Major road Coal Manufacturing 30% Uluru (Ayers Rock) (D4)

Major industrial

Mining

Tourism

Oil and gas

Uluru is an enormous block of red of Australia. It is the world's biggest free-standing rock - 5.8 miles around the base, and 2,845 ft high. It is the summit of a sandstone hill that is buried beneath the

Great Barrier Reef (G2)

This spectacular coral reef, which stretches for over 1.200 miles off the coast of Queensland, is the largest living structure on Farth. The reef has built up over millions of years and its waters are home to thousands of different species of coral and marine animals

Despite its vast size, Australia is sparsely populated. The desert outback, which covers most of the interior. is too dry and barren to support many people. About 85% of the population live in the cities and towns on the east and southeast coasts. and around Perth in the west.

URBAN/RURAL POPULATION DIVISION

Other towns

Rural population 15%

Brewing

Chemicals

Electronics

POPULATION

Engineering

Car manufacturing

droplets given off by sandstone, standing almost in the middle the eucalyptus trees covering their slopes sands of the desert

Murray River (F5)

Together with its tributaries the Murray River is Australia's main river system. It winds slowly westward for more than 1,562 miles from the Great Dividing Range to the Indian Ocean. It is fed by snow from mountains in the far southeast.

Great Dividing Range (H5)

These highlands separate the desert regions from the fertile eastern plains. Rivers and streams have eroded them, creating deep valleys and gorges.

Simpson Desert (E4)

The Simpson Desert covers around 50,000 sq miles. It contains long, parallel lines of sand dunes and is scattered with large salt pans and salt lakes, which were created when old rivers evaporated. They are now fed by the seasonal rains.

INHABITANTS PER SQ MILE

More than 130

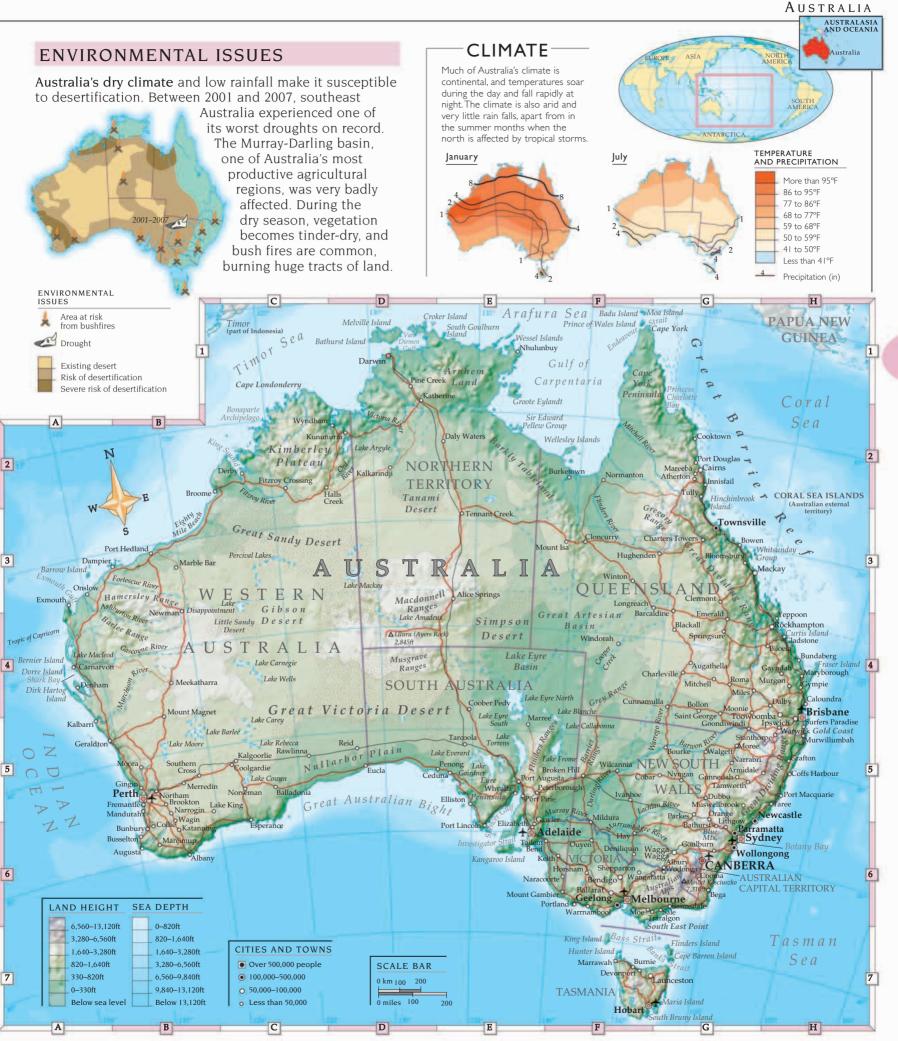
30-130

Less than 3

Capital city

Major city

3-30

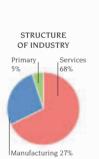


New Zealand

New Zealand is one of the most remote populated places in the world, and was one of the last places on Earth to be inhabited by people. The first people to settle on the islands were the Maori, a Polynesian people. When European settlers arrived during the 19th century, the Maori became a minority and today make up only about 8% of the population. With few people and rich natural resources, New Zealand's inhabitants have high living standards.

INDUSTRY

High-tech industries such as electronics and computing are growing in the major cities of Auckland and Wellington. Agricultural products such as meat, wool, and milk are still among New Zealand's major exports, and large pine forests supply wood for paper pulp and timber. The magnificent scenery and varied climate draw tourists from all over the world, especially for hiking and other special vacations.

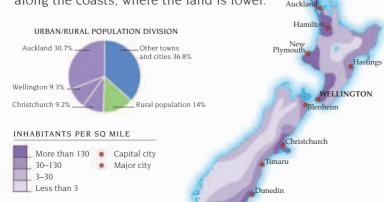




Nelson Wellington Blenheim Christchurch Timaru Northland (C I) This is a tropical

POPULATION

Most of the population is descended from European settlers, although immigrants from Asia and the Pacific islands are increasing. About one-third of New Zealand's 4 million people live in Auckland on North Island, which also has the largest Polynesian population of any city in the Pacific. Elsewhere, the population is clustered along the coasts, where the land is lower.



ENVIRONMENTAL ISSUES

New Zealand is one of the world's least polluted countries, largely due to its small population and lack of heavy industries. Air quality is occasionally poor in Auckland and Christchurch. Environment-friendly geothermal energy is tapped to make electricity in the volcanic region of North Island. Recently, logging companies have begun to exploit the rich forest reserves, although this has been widely opposed.



ENVIRONMENTAL ISSUES

Geothermal power generation

Logging activity

Urban air pollution

Major industrial center

THE LANDSCAPE

Two large, mountainous islands form New Zealand's main land areas. A large crack or fault – the Alpine Fault, in the west of South Island – is the boundary between two plates in the Earth's crust. Land on either side of the fault tends to move, causing earthquakes. Volcanoes, many of them still active, are also found on both islands. South Island has many high peaks, several more than 10,000 ft high.

Geysers and boiling mud

Geysers occur when hot volcanic rocks come into contact with underground water. The water boils and turns to steam, forcing the water above it to burst through the Earth's surface into the air. There are many geysers and boiling mud pools in the areas around Rotorua and Taupo.

This is a tropical region in the far northwest. Many of the inlets are fringed by mangrove swamps. Mount Taranaki (C4) The dormant volcano of Mount Taranaki lies on New Zealand's North Island. It rises to a height of 8,262 ft. Probable location of Alpine Fault Lake Taupo (D3) New Zealand's largest lake, Lake Taupo, covers 234 sa miles of North Island It lies in the crater of an extinct volcano

Southern Alps

New Zealand's Southern Alps stretch more than 300 miles down the backbone of South Island. They were formed by the collision of the Indo-Australian and Pacific plates. Heavy snowfalls here, brought by westerly winds, feed the Fox Glacier, which moves at a speed of 1.5–15 ft a day.

unedin

Codfish Island Halfmoon Bay

Stewart Island

outh West

6.560-13.120ft

3,280-6,560ft

1,640-3,280ft

820-1,640ft

330-820ft

0-330ft

CITIES AND TOWNS

Over 500,000 people

100,000-500,000

o 50,000-100,000

o Less than 50,000

0-160ft

160-330ft

330-820ft

820-1,640ft

1.640-3.280ft

3,280-6,560ft

Below 6.560ft

Southwest Pacific

The many thousands of islands in the Pacific Ocean are scattered across an enormous area. The original inhabitants, the Polynesians, Melanesians, and Micronesians, settled the islands following the last Ice Age. In the 1700s Europeans arrived. They colonized all of the Pacific islands, introducing their culture, languages, and religion. Today many, though not all, of the islands have become independent. Their economies are simple, based largely on fishing and agriculture. Many are increasingly relying on their beautiful scenery and tropical climates to attract tourists and give a valuable boost to their economies.

LANDSCAPE

Most of the Pacific islands are extremely small, the largest landmass is the half of the island of New Guinea occupied by Papua New Guinea. The edges of the Indo-Australian and Pacific plates meet on the western edge of the area, leading to much volcanic and earthquake activity. Many of the islands are coral atolls, originally formed by volcanic activity, and some are no more than a few feet above sea level.

New Guinea (A2)

A mountainous spine runs through the center of the island, separating the northern coast from the dense forests and mangroves found in the south

Pacific Ocean

The Pacific Ocean is the Farth's oldest and deepest. Its name means peaceful, though it is far from being so; the highest wave ever recorded in open ocean 112 ft - occurred during a hurricane in the Pacific

Kavachi

Kavachi is an underwater volcano lying off the coast of New Georgia, in the Solomon Islands. It still erupts every few years.

Ring of Fire

The "Ring of Fire" is the term used to describe the string of volcanoes that surround the entire Pacific Ocean and erupt frequently because of intense stress and movement from within the Earth. The ring crosses the south Pacific, running between Vanuatu and New Caledonia, along the edge of the Solomon Islands, and between New Britain and New Guinea

Sea trenches

Deep trenches mark the seafloor boundary where the Indo-Australian plate "dives" under the Pacific plate

Coral atolls

Volcanic activity in the Pacific has led to the creation of many islands. These islands become fringed with a ring of coral. When the islands subside beneath the water once again, only the circle of coral is left, forming an atoll.

INDUSTRY

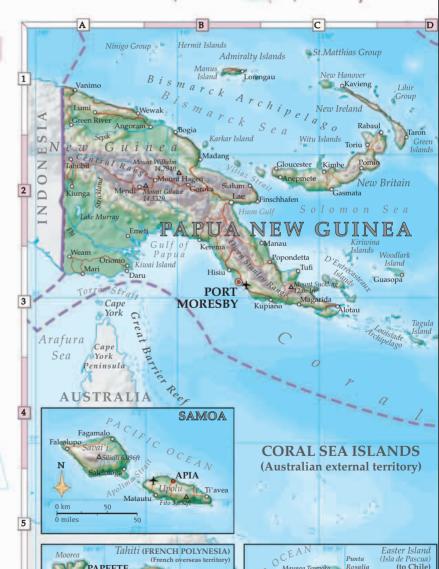
Today, the main industry for many of the Pacific islands is tourism. Food processing and small-scale textile industries are also common on many islands.

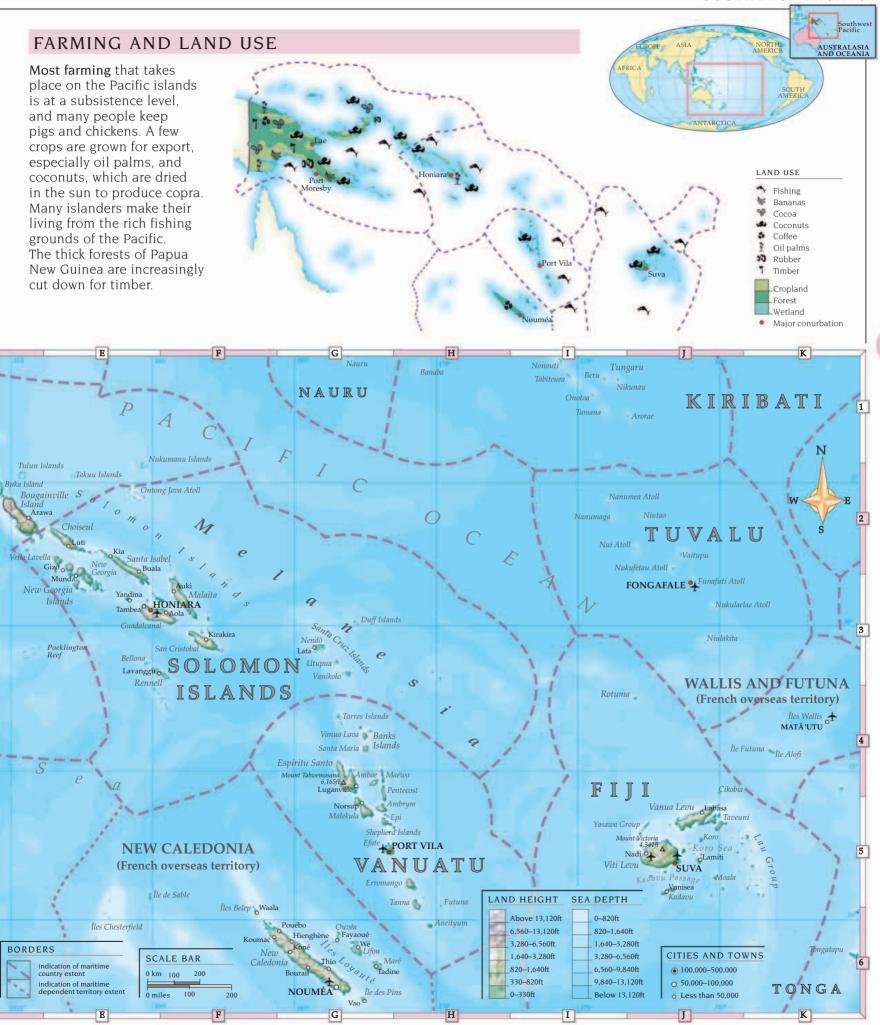


INDUSTRY

Brewing Food processing

Textiles





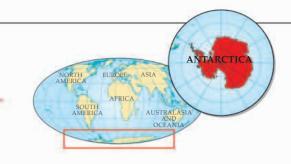
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ANTARCTICA

LAND HEIGHT

The continent of Antarctica has no permanent human population and very few animals can survive on the frozen land, although the surrounding waters teem with fish and mammals. Even in the summer, the temperature is rarely above freezing and the sea-ice only partly melts; in winter, temperatures plummet to $-112^{\circ}F$. The only people who live in Antarctica are teams of scientists who study the wildlife and monitor the ice for changes in the Earth's atmosphere.

SEA DEPTH



THE LANDSCAPE

Frozen seas

During the cold winter months, the water surrounding Antarctica freezes, almost doubling the size of the continent. Antarctica is the world's most southerly continent. It is also the world's coldest continent and its highest, mainly due to the great ice sheet – up to 1.25 miles thick in parts – that lies over the mountains of the Antarctic Peninsula and the plateau of East Antarctica.

Lambert Glacier (E4)

The Lambert Glacier is the world's largest series of glaciers. It is 50 miles wide at the coast and reaches more than 180 miles inland.

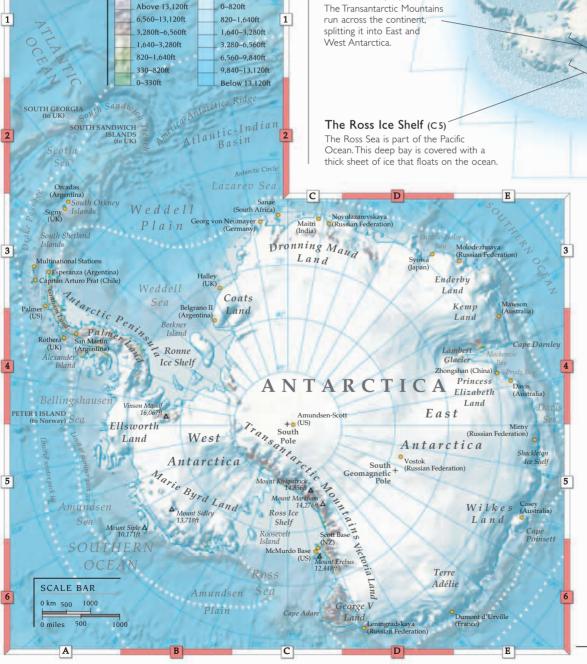
Ice sheet

A massive sheet of ice, about 15,700 ft thick at its deepest point, covers almost the entire area of Antarctica. It contains most of the freshwater on Earth. The weight of the ice pushes the land down below sea level.

RESOURCES

The mountains of Antarctica have rich mineral reserves. Gold, iron, and coal are found, and there is natural gas in the surrounding water. The unique and abundant marine wildlife is Antarctica's greatest resource. Colonies of penguins breed on the ice sheet, and whales, seals, and many bird and fish species thrive in the icy waters.





Transantarctic

Mountains (C5)

THE ARCTIC

The ice-covered Arctic Ocean is encircled by the most northerly parts of Europe, North America, and Asia. Very few people live in the often-freezing conditions. Those who do, including the Sami of northern Scandinavia, the Siberian Yugyt and Nenet people, and the Canadian Inuit, were nomads who lived by hunting and herding. Some live like this today, but many have now settled in small towns.

THE LANDSCAPE

The Arctic Ocean is the smallest ocean in the world, covering a total area of 5,440,000 sq miles. The ocean is divided into two large basins, divided by three great underwater mountain ranges including the Lomonosov Ridge which is more than 9,842 ft high on average.

Lomonosov Ridge (C4)

Pack ice

ANTARCTICA AND THE ARCTIC

Much of the Arctic Ocean is permanently covered by pack ice. When the ice breaks up, it forms enormous floating ice masses called icebergs.

Arctic islands (A4)

In the far north of Canada, there are many thousands of islands including Baffin Island and Victoria Island. Many of them are almost entirely surrounded by pack ice.

D E E S AND TOWNS SEA DEPTH

Greenland (A3)

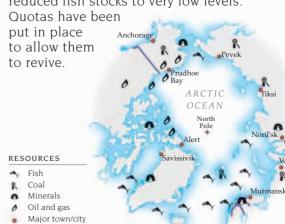
Greenland is the world's largest island. It is covered by a huge ice sheet, more than 649,960 sq miles across. The weight of the ice has pushed most of the land below sea level.

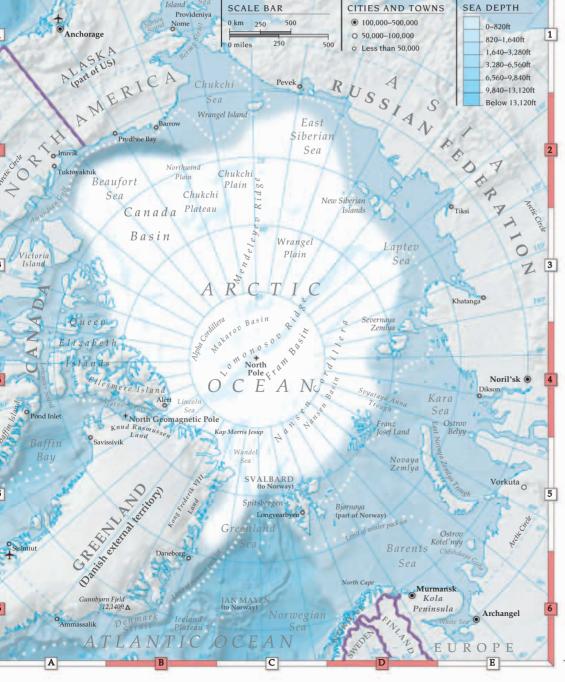
Sastrugi

Snow, blown by strong winds, can scratch deep patterns in the snow. These patterns are known as sastrugi and line up with the direction of the wind.

RESOURCES

Coal, oil, and gas are found beneath the Arctic Ocean and in Canada, Alaska, and Russia. Fears about damage to the environment and the cost of extracting these resources have restricted the quantities removed. Overfishing has reduced fish stocks to very low levels.





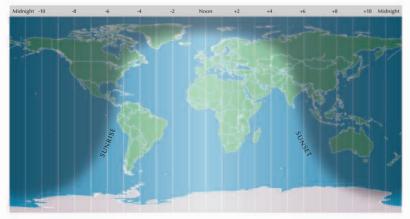


The numbers along the top of the map (+2/-2 etc.), indicate the number of hours each time zone is ahead or behind UTC (Coordinated Universal Time)

Time Zones

The Earth is a rotating sphere, and because of this the Sun only shines on half of its surface at any one time. This means that it is morning, evening, and night time in different parts of the world (*see diagram below*). Because of these differences, each country or part of a country uses a local time. A region of Earth's surface which uses a single local time is called a time zone. There are 24 one-hour time zones around the world, arranged roughly in vertical longitudinal bands.

Day and night around the world



STANDARD TIME

Standard time is the official local time in a particular country or part of a country. Although time zones are arranged roughly in longitudinal bands, in many places the borders of a zone do not fall exactly along a line of longitude, as can be seen on the map, but are determined by geographical factors or by borders between countries.

The clocks and 24-hour times given at the bottom of the map show time in each time zone when it is 12.00 hours noon UTC

Most countries have just one time zone, but some large countries (such as the US, Canada, and Russia) are split between several time zones, so standard time varies across those countries. For example, the US mainland crosses four time zones and so has four standard times, called the Eastern, Central, Mountain, and Pacific standard times. China is unusual in that just one standard time is used for the whole country, even though it extends across 60° of longitude from west to east.

COORDINATED UNIVERSAL TIME (UTC)

Coordinated Universal Time (UTC) is an international reference used to set the local time in each time zone. For example, Australian Western Standard Time (the local time in Western Australia) is set 8 hours ahead of UTC (it is UTC+8), so if it were 12.00 noon UTC in London, UK, it would be 8.00pm in Perth, Western Australia. UTC has replaced Greenwich Mean Time (GMT) because UTC is based on an atomic clock, which is more accurate and convenient than GMT. Greenwich Mean Time was determined by the Sun's position in the sky relative to the 0° line of longitude, also known as the Greenwich Meridian, which runs through Greenwich, UK.

THE INTERNATIONAL DATELINE

The International Dateline is an imaginary line from pole to pole that roughly corresponds to the 180° line of longitude. It is an arbitrary marker between calendar days. The dateline is needed because of the use of local times around the world rather than a single universal time. When moving from west to east across the dateline, travelers have to set their watches back one day. Those traveling in the opposite direction, from east to west, must add a day.

DAYLIGHT SAVING TIME

Daylight saving is a summertime adjustment to the local time in a country or region, designed to increase the hours of daylight that occur during people's normal waking hours. To follow the system, clocks are advanced by an hour on a pre-decided date in spring and reverted back in the fall. About half of the world's nations use daylight saving.

GEOGRAPHICAL COMPARISONS

LARGEST COUNTRIES

Russian Federation	6,592,735 sq miles (17,075,200 sq km)
Canada	3,885,171 sq miles (9,984,670 sq km)
USA	3,717,792 sq miles (9,629,091 sq km)
China	3,705,386 sq miles (9,596,960 sq km)
Brazil	3,286,470 sq miles (8,511,965 sq km)
Australia	2,967,893 sq miles (7,686,850 sq km)
India	1,269,339 sq miles (3,287,590 sq km)
Argentina	1,068,296 sq miles (2,766,890 sq km)
Kazakhstan	1,049,150 sq miles (2,717,300 sq km)
Sudan	967,493 sq miles (2,505,810 sq km)

SMALLEST COUNTRIES

Vatican City	0.17 sq miles (0.44 sq km)
Monaco	0.75 sq miles (1.95 sq km)
Nauru	8.1 sq miles (21 sq km)
Tuvalu	10 sq miles (26 sq km)
San Marino	24 sq miles (61 sq km)
Liechtenstein	62 sq miles (160 sq km)
Marshall Islands	70 sq miles (181 sq km)
St. Kitts & Nevis	101 sq miles (261 sq km)
Maldives	116 sq miles (300 sq km)
Malta	122 sq miles (316 sq km)

Most populous countries

China	1,345,751,000
India	1,198,003,300
USA	314,658,800
Indonesia	229,964,700
Brazil	193,733,800
Pakistan	180,808,100
Bangladesh	162,220,800
Nigeria	154,728,892
Russian Federation	140,873,600
Japan	127,156,200
Japan	127,156,200

LEAST POPULOUS COUNTRIES

Vatican City	800
Nauru	9800
Tuvalu	11,100
Palau	20,400
San Marino	31,400
Monaco	32,000
Liechtenstein	35,000
St. Kitts & Nevis	46,100
Marshall Islands	54,100
Dominica	70,400

Most densely populated countries

Manage 42 ((7 manala manage)) (1(410 manage))	
Monaco	km)
Singapore20,072 people per sq mile (7765 per sq	km)
Vatican City 4706 people per sq mile (1818 per sq	km)
Malta3296 people per sq mile (1277 per sq	km)
Bangladesh3138 people per sq mile (1211 per sq	km)
Bahrain 2899 people per sq mile (1121 per sq	km)
Maldives 2667 people per sq mile (1031 per sq	km)
Taiwan1844 people per sq mile (712 per sq	km)
Mauritius1794 people per sq mile (693 per sq	km)
Barbados1542 people per sq mile (595 per sq	km)

Most sparsely populated countries

Mongolia	4	people	per	sq	mile	(2	per	sq	km)
Namibia	7	people	per	sq	mile	(3	per	sq	km)
Australia	7	people	per	sq	mile	(3	per	sq	km)
Mauritania	8	people	per	sq	mile	(3	per	sq	km)
Suriname	8	people	per	sq	mile	(3	per	sq	km)
Iceland	8	people	per	sq	mile	(3	per	sq	km)
Botswana	9	people	per	sq	mile	(3	per	sq	km)
Canada	9	people	per	sq	mile	(4	per	sq	km)
Libya	9	people	per	sq	mile	(4	per	sq	km)
Guyana1	0	people	per	sq	mile	(4	per	sq	km)

RICHEST COUNTRIES (GNI PER CAPITA, IN US\$) Liechtenstein 99,160 Qatar 93,204 Norway 87,068 Luxembourg 84,892

Qatar	93,204
Norway	87,068
Luxembourg	84,892
Switzerland	65,334
Denmark	59,129
UAE	54,067
San Marino	
Sweden	
Netherlands	

POOREST COUNTRIES (GNI PER CAPITA, IN US\$) Burundi...... Congo, Dem. Rep..... 153 Liberia..... .. 167 Zimbabwe..... ... 237 Guinea-Bissau.....245 Ethiopia 282 Malawi 288 Somalia 288

Most widely spoken languages

1. Chinese (Mandarin)	6. Arabio
2. English	7. Bengal
3. Hindi, Hindustani, Urdu	8. Portuguese
4. Spanish	Malay-Indonesiar
5. Russian	10. French

LARGEST DESERTS

Eritrea.....

Sierra Leone....

Sahara	
Gobi	500,000 sq miles (1,295,000 sq km)
Empty Quarter (Ar Rub al 1	Khali) 289,600 sq miles (750,000 sq km)
Great Victorian	249,800 sq miles (647,000 sq km)
Sonoran	120,000 sq miles (311,000 sq km)
Kalahari	120,000 sq miles (310,800 sq km)
Garagum	115,800 sq miles (300,000 sq km)
Takla Makan	100,400 sq miles (260,000 sq km)
Namib	52,100 sq miles (135,000 sq km)
Thar	33,670 sq miles (130,000 sq km)
NB – Most of Antarctica is a p	polar desert, with only 2 inches (50 mm)
of precipitation annuallu	

LARGEST ISLANDS

. 849,400 sq miles (2,200,000 sq km)
312,000 sq miles (808,000 sq km)
292,222 sq miles (757,050 sq km)
229,300 sq miles (594,000 sq km)
202,300 sq miles (524,000 sq km)
183,800 sq miles (476,000 sq km)
88,800 sq miles (230,000 sq km)
88,700 sq miles (229,800 sq km)
81,900 sq miles (212,000 sq km)
75,700 sq miles (196,000 sq km)

HIGHEST MOUNTAINS	(HEIGHT ABOVE SEA LEVEL)
Everest	29,035 ft (8850 m)
K2	28,253 ft (8611 m)
Kanchenjunga I	28,210 ft (8598 m)
Makalu I	27,767 ft (8463 m)
Cho Oyu	26,907 ft (8201 m)
Dhaulagiri I	26,796 ft (8167 m)
Manaslu I	26,783 ft (8163 m)
Nanga Parbat I	26,661 ft (8126 m)
Annapurna I	26,547 ft (8091 m)
Gasherbrum I	26,471 ft (8068 m)

DEEPEST OCEAN FEATURES

Challenger Deep, Mariana Trench (Pacific) 36,201 ft (11,034 m)
Vityaz III Depth, Tonga Trench (Pacific)35,704 ft (10,882 m)
Vityaz Depth,
Kurile-Kamchatka Trench (Pacific)34,588 ft (10,542 m)
Cape Johnson Deep,
Philippine Trench (Pacific)
Kermadec Trench (Pacific)
Ramapo Deep, Japan Trench (Pacific) 32,758 ft (9984 m)
Milwaukee Deep,
Puerto Rico Trench (Atlantic)
Argo Deep, Torres Trench (Pacific)
Meteor Depth,
South Sandwich Trench (Atlantic)
Planet Deep, New Britain Trench (Pacific) 29,988 ft (9140 m

Largest bodies of inland water

(Area & Depth)

Caspian Sea143,243 sq miles (371,000 sq km)3215 ft (980 m)
Lake Superior 32,151 sq miles (83,270 sq km)1289 ft (393 m)
Lake Victoria 26,560 sq miles (68,880 sq km) 328 ft (100 m)
Lake Huron23,436 sq miles (60,700 sq km)751 ft (229 m)
Lake Michigan22,402 sq miles (58,020 sq km)922 ft (281 m)
Lake Tanganyika12,703 sq miles (32,900 sq km)4700 ft (1435 m)
Great Bear Lake12,274 sq miles $(31,790 \text{ sq km}) \dots 1047 \text{ ft } (319 \text{ m})$
Lake Baikal11,776 sq miles (30,500 sq km)5712 ft (1741 m)
Great Slave Lake 10,981 sq miles (28,440 sq km) 459 ft (140 m)
Lake Erie9915 sq miles (25,680 sq km)197 ft (60 m)

Longest rivers

..... 299 321

Nile (NE Africa)	4160 miles (6695 km)
Amazon (South America)	4049 miles (6516 km)
Yangtze (China)	3915 miles (6299 km)
Mississippi/Missouri (US)	3710 miles (5969 km)
Ob'-Irtysh (Russ. Fed.)	3461 miles (5570 km)
Yellow River (China)	3395 miles (5464 km)
Congo (Central Africa)	2900 miles (4667 km)
Mekong (Southeast Asia)	2749 miles (4425 km)
Lena (Russian Federation)	2734 miles (4400 km)
Mackenzie (Canada)	2640 miles (4250 km)
Yenisey (Russian Federation)	2541 miles (4090 km)

GREATEST WATERFALLS

(MEAN FLOW OF WATER)

Boyoma (Congo)6	00,400 cu. ft/sec (17,000 cu.m/sec)
Khône (Laos/Cambodia)4	10,000 cu. ft/sec (11,600 cu.m/sec)
Niagara (USA/Canada)	.195,000 cu. ft/sec (5500 cu.m/sec)
Grande (Uruguay)	.160,000 cu. ft/sec (4500 cu.m/sec)
Paulo Afonso (Brazil)	.100,000 cu. ft/sec (2800 cu.m/sec)
Urubupunga (Brazil)	97,000 cu. ft/sec (2750 cu.m/sec)
Iguaçu (Argentina/Brazil)	62,000 cu. ft/sec (1700 cu.m/sec)
Maribondo (Brazil)	53,000 cu. ft/sec (1500 cu.m/sec)
Victoria (Zimbabwe)	39,000 cu. ft/sec (1100 cu.m/sec)
Kabalega (Uganda)	42,000 cu. ft/sec (1200 cu.m/sec)
Churchill (Canada)	35,000 cu. ft/sec (1000 cu.m/sec)
Cauvery (India)	33,000 cu. ft/sec (900 cu.m/sec)

HIGHEST WATERFALLS

Angel (Venezuela)	3212	ft (979	m
Tugela (South Africa)	3110	ft (948	3 m
Utigard (Norway)	2625	ft (800) m
Mongefossen (Norway)	2539	ft (774	m
Mtarazi (Zimbabwe)	2500	ft (762	m e
Yosemite (USA)	2425	ft (739	m
Ostre Mardola Foss (Norway)	2156	ft (657	m
Tyssestrengane (Norway)	2119	ft (646	m
*Cuquenan (Venezuela)	2001	ft (610) m
Sutherland (New Zealand)	1903	ft (580) m
*Kjellfossen (Norway)	1841	ft (561	m

^{*} indicates that the total height is a single leap

			GENERAL FACTS		
Country	Capital city	Land area (sq miles)	Main languages spoken	Unit of currency	Population (2009)
NORTH AMERICA					
Antigua & Barbuda	St John's	171	English, English patois	East Caribbean dollar	82 800
Bahamas	Nassau	5 381	English, English Creole, French Creole	Bahamian dollar	341 700
Barbados	Bridgetown	166	Bajan (Barbadian English), English	Barbados dollar	255 900
Belize	Belmopan	8 865	English Creole, Spanish, English, Mayan, Garifuna (Carib)	Belizean dollar	306 800
Canada	Ottawa	3 854 083	English, French, Chinese, Italian, German, Ukrainian, Portuguese, Inuktitut, Cree	Canadian dollar	33 573 500
Costa Rica	San José	19 725	Spanish, English Creole, Bribri, Cabecar	Costa Rican colón	4 578 900
Cuba	Havana	42 792	Spanish	Cuban peso	11 204 200
Dominica	Roseau	291	French Creole, English	East Caribbean dollar	70 400
Dominican Republic	Santo Domingo	18 810	Spanish, French Creole	Dominican Republic peso	10 090 151
El Salvador	San Salvador	8 121	Spanish	Salvadorean colón, US \$	6 163 100
Grenada	St George's	133	English, English Creole	East Caribbean dollar	103 900
Guatemala	Guatemala City	42 032	Quiché, Mam, Cakchiquel, Kekchí, Spanish	Quetzal	14 026 900
Haiti	Port-au-Prince	10 712	French Creole, French	Gourde	10 032 600
Honduras	Tegucigalpa	43 267	Spanish, Garífuna (Carib), English Creole	Lempira	7 466 000
Jamaica	Kingston	4 243	English Creole, English	Jamaican dollar	2 718 800
Mexico	Mexico City	744 034	Spanish, Nahuatl, Mayan, Zapotec, Mixtec, Otomi, Totonac, Tzotzil, Tzeltal	Mexican peso	109 610 000
Nicaragua	Managua	49 985	Spanish, English Creole, Miskito	Córdoba oro	5 742 800
Panama	Panama City	30 185	English Creole, Spanish, Amerindian languages, Chibchan languages	Balboa, US dollar	3 453 900
St Kitts & Nevis	Basseterre	101	English, English Creole	East Caribbean dollar	46 100
St Lucia	Castries	238	English, French Creole	East Caribbean dollar	172 200
St Vincent & the Grenadines	Kingstown	150		East Caribbean dollar	109 200
Trinidad & Tobago	Port-of-Spain	2 037	English Creole, English, Hindi, French, Spanish	Trinidad and Tobago dollar	1 338 600
United States	Washington D.C.	3 717 727	English, Spanish, Chinese, French, German, Tagalog, Vietnamese, Italian, Korean, Russian, Polish	US dollar	314 658 800
SOUTH AMERICA					
Argentina	Buenos Aires	1 068 020	Spanish Italian Amerindian languages	Argentine neco	40 276 400
Bolivia	La Paz/Sucre	424 052	Spanish, Italian, Amerindian languages Aymara, Quechua, Spanish	Argentine peso Boliviano	9 862 900
Brazil	Brasília	3 285 618	Portuguese, German, Italian, Spanish, Polish, Japanese, Amerindian languages	Real	193 733 800
Chile		292 183	Spanish, Amerindian languages	Chilean peso	16 970 300
Colombia	Santiago	439 619		Colombian peso	45 659 700
	Bogotá			US dollar	
Ecuador	Quito	109 454	Spanish, Quechua, other Amerindian languages		13 625 100
Guyana	Georgetown	82 978	English Creole, Hindi, Tamil, Amerindian languages, English	Guyanese dollar	762 500
Paraguay	Asunción	157 006	Guaraní, Spanish, German	Guaraní	6 348 900
Peru	Lima	496 095	Spanish, Quechua, Aymara	Nuevo sol	29 164 883
Suriname 	Paramaribo	63 022	Sranan (creole), Dutch, Javanese, Sarnami Hindi, Saramaccan, Chinese, Carib	Surinamese dollar	519 700
Uruguay	Montevideo	68 021	Spanish Spanish Apprinting languages	Uruguayan peso	3 360 900
Venezuela	Caracas	352 051	Spanish, Amerindian languages	Bolívar fuerte	28 583 400
AFRICA					
Algeria	Algiers	919 352	, , , , , , , , , , , , , , , , , , , ,	Algerian dinar	34 895 500
Angola	Luanda	481 226	Portuguese, Umbundu, Kimbundu, Kikongo	Readjusted kwanza	18 497 600
Benin	Porto-Novo	43 471	Fon, Bariba, Yoruba, Adja, Houeda, Somba, French	CFA franc	8 935 000
Botswana	Gaborone	231 743	Setswana, English, Shona, San, Khoikhoi, isiNdebele	Pula	1 949 800
Burkina Faso	Ouagadougou	105 841	Mossi, Fulani, French, Tuareg, Dyula, Songhai	CFA franc	15 756 900
Burundi	Bujumbura	10 742	Kirundi, French, Kiswahili	Burundian franc	8 303 300
Cameroon	Yaoundé	183 520	Bamileke, Fang, Fulani, French, English	CFA franc	19 521 600
Cape Verde	Praia	1 557	Portuguese Creole, Portuguese	Escudo	505 600
Central African Republic	Bangui	240 472	Sango, Banda, Gbaya, French	CFA franc	4 422 400
Chad	N'Djamena	495 624	French, Sara, Arabic, Maba	CFA franc	11 206 152
Comoros	Moroni	838	Arabic, Comoran, French	Comoros franc	676 000
Congo, Democratic Republic	Kinshasa	905 328	Kiswahili, Tshiluba, Kikongo, Lingala, French	Congolese franc	66 020 400

POPU	ULATION	N			HE	ALTH AN	D EDUC	CATION	N		ECONOM DEVELOPM	ELOPMENT DEVELOPM al Annual Mobile Internet					
y p	Birth rate per 1000 population (2005— 2010)	Death rate per 1000 population (2005– 2010)	Life expo at birth 2007)		Medical doctors per 10 000 people (1997–2007)	Infant mortality (deaths per 1000 live births; 2007)	Adult literacy rate (percentage of adults over 15; 2000–2007)		Average calorie intake per person (2005)	GNI per person (US\$; 2008)	Annual electricity consumption per person (kWh; 2007)				ICT Dev. Index (IDI compiled by the ITU (2009)		
			Male	Female			Male	Female									
487	17	6	7.4	75	1.80	9	98.4	99.0	2 267	13 617	1468	0.6	1 577	750			
88	17	6		77	10.65	12	95.0	96.7	2 665	21 688	6223	0.7	1 060	315			
1 542	11	8		78	11.97	11	99.0	99.0	2 920	13 829	3346	0.8	1 591	737			
35	25	4		72	12.50	22	-		2 800	3 819	676	1.0	532	113			
9	11	7	78	83	19.10	5	99.0	99.0	3 551	41 729	16 293	1.4	664	754			
232	17	4	77	81	13.00	10	95. <i>7</i>	96.2	2 808	6 064	1 792	0.4	418	323			
262	10	7	76	81	58.90	5	99.0	99.0	3 286	5 512	1 233	4.2	30	129			
243	16	8	72	76	5.14	12	-	-	3 072	4 767	1 091	0.0	1 497	412			
540	23	6	70	74	18.40	31	88.8	89.5	2 306	4 392	1 396	0.6	725	216			
770	20	7	68	75	12.20	21	84.9	79.7	2 509	3 482	659	0.5	1 133	106			
793	19	6	67	70	8.00	15	-	-	2 320	5 709	1 734	-	580	232			
335	33	6	65	72	8.98	29	79.0	68.0	2 285	2 679	539	0.5	1 092	143	1		
943	28	9	59	64	2.60	57	60.1	64.0	1 829	661	31	0.4	324	101	1		
173	28	5	68	74	5.66	20	83.7	83.5	2 593	1 799	626	0.7	849	131	1		
650	20	7	69	74	8.34	26	80.5	91.1	2 814	4 871	2 350	0.5	1 006	569			
149	19	5		78	15.00	18	94.4	91.4	3 243	9 981	1 833	0.4	694	217			
125	25	5			3.72	28	78.1	77.9	2 362	1 079	451	0.6	548	33	1		
118	21	5		79	15.28	18	94.0	92.8	2 399	6 178	1 567	1.0	1 152	275			
332	18	8	69	76	11.22	16	-	-	2 426	10 961	3 075	-	1 567	313			
730	18	7		78	49.00	12	-	-	2 755	5 530	1 770	-	995	587			
834	18	8	66	75	7.71	15	-	-	2 743	5 141	1 050	-	1 192	605			
676	15	8	66	73	7.72	31	99.0	98.3	2 767	16 538	5 411	0.3	1 129	170			
89	14	8	/6	81	26.25	6	99.0	99.0	3 855	47 577	12 912	4.3	868	740			
20	17	0	7.	10	20.10		07.6	07.7	2.042	7.201	2.512	0.0	1.166	201			
38	17	8		19	30.10	14	97.6	97.7	3 043	7 201	2 512	0.8	1 166	281			
24 59	27 16	8		68	12.15	48	96.0 89.8	86.0	2 160 3 118	1 457	491 2 107	1.5	498	108			
59	15	5		76 81	11.66	8	96.6	90.2	2 999	7 351 9 396		3.5	785 881	375 325			
114	21	6		79	13.50	17	92.4	92.8	2 688	4 658	3 451 821	3.7	919	385			
127	21	5		76	14.60	20	87.3	81.7	2 365	3 643	727	2.9	856	288			
10	18	8		63	4.25	45	99.0	99.0	2 836	1 416	867	1.8	368	269			
41	25	6		77	10.96	24	95.7	93.5	2 620	2 180	834	0.8	955	143			
59	21	5		77	11.80	17	94.9	84.6	2 547	3 987	938	1.3	727	247			
8	19	8		73	4.58	27	92.7	88.1	2 725	4 990	3 116	0.6	808	97			
50	15	9		79	36.42	12	97.4	98.2	2 941	8 259	2 040	1.2	1 047	400			
84	21	5	72	78	19.51	17	95.4	94.9	2 433	9 226	2 997	1.1	963	255			
38	21	5	70	73	11.26	33	84.3	66.4	3 094	4 260	836	3.0	927	119			
38	43	17	51	55	0.83	116	82.9	54.2	1 902	3 447	188	2.9	376	31			
209	40	9	57	58	0.45	78	53.1	27.9	2 314	687	66	1.0	419	19	1		
9	25	12	56	56	3.97	33	82.8	82.9	2 212	6 471	1 471	3.5	773	63	1		
149	48	13	48	50	0.53	104	36.7	21.6	2 668	479	41	1.8	168	9	1		
838	35	14	48	50	0.28	108	67.3	52.2	1 631	135	16	3.8	60	8			
109	37	14	51	52	1.92	87	77.0	59.8	2 239	1 153	284	1.5	323	38	1		
325	24	5	66	73	4.88	24	89.4	78.8	2 424	3 131	550	0.5	557	206	1		
18	36	17	48	48	0.85	113	64.8	33.5	1 924	408	25	1.6	36	4			
23	46	17	46	47	0.39	124	43.0	20.8	1 992	535	9	1.0	166	12	1		
785	33	7	63	67	1.46	49	80.3	69.8	1 819	751	28	2.8	149	35	1		
785 75	33 45	7 17		67 54	1.46	108	80.3 80.9	69.8 54.1	1 819 1 485	751 153	28 98	2.8	149 144	35 5			

			GENERAL FACTS		
Country	Capital city	Land area (sq miles)	Main languages spoken	Unit of currency	Population (2009)
Congo	Brazzaville	132.012	Kongo, Teke, Lingala, French	CFA franc	3 683 200
Côte d'Ivoire	Yamoussoukro		Akan, French, Krou, Voltaïque	CFA franc	21 075 000
Djibouti	Djibouti		Somali, Afar, French, Arabic	Djibouti franc	864 200
Egypt	Cairo	386 560	Arabic, French, English, Berber	Egyptian pound	82 999 400
Equatorial Guinea	Malabo	10 828	Spanish, Fang, Bubi, French	CFA franc	676 300
Eritrea	Asmara	46 830	Tigrinya, English, Tigre, Afar, Arabic, Saho, Bilen, Kunama, Nara, Hadareb	Nakfa	5 073 300
Ethiopia	Addis Ababa	435 071		Birr	82 824 700
Gabon	Libreville	103 319	Fang, French, Punu, Sira, Nzebi, Mpongwe	CFA franc	1 474 600
Gambia	Banjul	4 362	Mandinka, Fulani, Wolof, Jola, Soninke, English	Dalasi	1 705 200
Ghana	Accra	92 432	Twi, Fanti, Ewe, Ga, Adangbe, Gurma, Dagomba (Dagbani)	Cedi	23 837 300
Guinea	Conakry	94 901	Pulaar, Malinké, Soussou, French	Guinea franc	10 068 700
Guinea-Bissau	Bissau	13 942	Portuguese Creole, Balante, Fulani, Malinké, Portuguese	CFA franc	1 610 700
Kenya	Nairobi	224 903	Kiswahili, English, Kikuyu, Luo, Kalenjin, Kamba	Kenya shilling	39 802 000
Lesotho	Maseru	11 717	English, Sesotho, isiZulu	Loti	2 066 919
Liberia	Monrovia	42 989	Kpelle, Vai, Bassa, Kru, Grebo, Kissi, Gola, Loma, English	Liberian dollar	3 955 000
Libya	Tripoli		Arabic, Tuareg	Libyan dinar	6 419 900
Madagascar	Antananarivo	226 597	Malagasy, French	Ariary	19 625 000
Malawi	Lilongwe	45 733		Malawi kwacha	15 263 400
Mali	Bamako	478 640	Bambara, Fulani, Senufo, Soninke, French	CFA franc	13 010 200
Mauritania	Nouakchott	397 850	Hassaniyah Arabic, Wolof, French	Ouguiya	3 290 630
Mauritius	Port Louis	787	French Creole, Hindi, Urdu, Tamil, Chinese, English, French	Mauritian rupee	1 288 200
Morocco	Rabat	172 368	Arabic, Tamazight (Berber), French, Spanish	Moroccan dirham	31 992 600
Mozambique	Maputo	309 414	Makua, Xitsonga, Sena, Lomwe, Portuguese	New metical	22 894 300
Namibia	Windhoek		Ovambo, Kavango, English, Bergdama, German, Afrikaans	Namibian \$, S African rand	2 171 100
Niger	Niamey		Hausa, Djerma, Fulani, Tuareg, Teda, French	CFA franc	15 290 100
Nigeria	Abuja		Hausa, English, Yoruba, Ibo	Naira	154 728 892
Rwanda	Kigali		Kinyarwanda, French, Kiswahili, English	Rwanda franc	9 997 600
São Tomé & Príncipe	São Tomé	386	Portuguese Creole, Portuguese	Dobra	162 800
Senegal	Dakar	75 729	Wolof, Pulaar, Serer, Diola, Mandinka, Malinké, Soninké, French	CFA franc	12 534 200
Seychelles	Victoria	176		Seychelles rupee	84 600
Sierra Leone	Freetown		Mende, Temne, Krio, English	Leone	5 696 500
Somalia	Mogadishu		Somali, Arabic, English, Italian	Somali shilin	9 133 100
South Africa	Tshwane/Cape Town/Bloemfontein	470 886	English, isiZulu, isiXhosa, Afrikaans, Sepedi, Setswana, Sesotho, Xitsonga, siSwati, Tshivenda	Rand	50 109 800
Sudan	Khartoum	967 243	Arabic, Dinka, Nuer, Nubian, Beja, Zande, Bari, Fur, Shilluk, Lotuko	New Sudanese pound/dinar	42 272 400
Swaziland	Mbabane	6 702	English, siSwati, isiZulu, Xitsonga	Lilangeni	11 849 000
Tanzania	Dodoma	364 804	Kiswahili, Sukuma, Chagga, Nyamwezi, Hehe, Makonde, Yao, Sandawe, English	Tanzanian shilling	43 739 100
Togo	Lomé		Ewe, Kabye, Gurma, French	CFA franc	6 618 600
Tunisia	Tunis		Arabic, French	Tunisian dinar	10 271 500
Uganda	Kampala		Luganda, Nkole, Chiga, Lango, Acholi, Teso, Lugbara, English	New Uganda shilling	32 709 900
Western Sahara	Laâyoune		Arabic, Tamazight (Berber), Spanish	Moroccan dirham	513 200
Zambia	Lusaka	290 509	Bemba, Tonga, Nyanja, Lozi, Lala-Bisa, Nsenga, English	Zambian kwacha	12 935 400
Zimbabwe	Harare		Shona, isiNdebele, English	US \$, S African rand*	12 522 800
EUROPE		.55761		o v t, v . urrearriand	12 322 000
	Torres	11.007	Allering Cook	Lab	2.155.200
Albania Andorra	Tirana Andorra la Vella		Albanian, Greek	Lek	3 155 300 82 200
		181	Spanish, Catalan, French, Portuguese German Gradian Slavenian Hungarian (Magyar)	Euro	82 200 8 363 900
Austria Belarus	Vienna	32 374 80 134	German, Croatian, Slovenian, Hungarian (Magyar) Belarussian, Russian	Euro Belarussian rouble	9 633 500
Belgium	Brussels	11 784	Dutch, French, German	Euro	10 646 800
Bosnia & Herzegovina		19 736	Bosnian, Serbian, Croatian	Marka	3 766 600
-	Sarajevo Sofia	42 811	Bulgarian, Turkish, Romani	Marka Lev	7 544 600
Bulgaria					
Croatia	Zagreb	21 823	Croatian	Kuna	4 416 200 and now legal tender

РО	PULATIO	V		HE	ALTH AN	D EDU	CATION	١		ECONOM DEVELOPM		TECHNOLOGICAL DEVELOPMENT			
Population density per sq mile (2009)	Birth rate per 1000 population (2005– 2010)	Death rate per 1000 population (2005– 2010)	Life expo at birth 2007)		Medical doctors per 10 000 people (1997–2007)	Infant mortality (deaths per 1000 live births; 2007)	Adult lite rate (per of adults 15; 2000	centage over	Average calorie intake per person (2005)	GNI per person (US\$; 2008)	Annual electricity consumption per person (kWh; 2007)	Annual military expenditure as percentage of GDP (2005– 2008)	Mobile telephones per 1000 population (2008)	Internet users per 1000 population (2008)	ICT Dev. Index (IDI), compiled by the ITU (2009)
			Male	Female			Male	Female							
28	35	13	54	56	1.99	79	89.6	78.4	2 351	1 973	112	1.3	500	43	132
172	35	11	52	57	1.23	89	60.8	38.6	2 542	984	172	1.5	507	32	128
97	29	11	53	58	1.77	84	79.9	61.4	2 210	1 130	524	4.1	133	23	-
216	25	6	66	70	24.30	30	74.6	57.8	3 331	1 801	1 354	2.3	506	167	94
62	38	15		54	3.02	91	93.4	80.5	-	14 980	47	0.1	525	18	-
112	37 39	9	61	65	0.50	46	76.2	53.0	1 570	299	49	6.3	22	41	149
193 15	28	12 10	55 57	59 61	2.82	75 60	50.0 90.2	22.8 82.2	1 826 2 800	282 7 243	1 033	1.5	898	62	147 107
442	37	11	57	61	1.11	81	49.9	35.4	2 131	393	93	0.7	702	69	107
268	33	11	56	58	1.51	73	71.7	58.3	2 759	674	248	0.7	496	43	114
106	40	11	52	56	1.15	93	42.6	18.1	2 559	442	81	1.7	391	9	-
148	41	17	46	51	1.25	118	75.1	54.4	2 052	245	35	4.0	318	24	152
182	39	12	53	56	1.41	80	77.7	70.2	2 079	767	152	1.7	421	87	116
176	29	17	43	47	0.49	68	73.7	90.3	2 440	1 080	287	2.6	284	36	123
106	39	11	54	58	0.29	93	60.2	50.9	2 067	167	93	0.5	193	5	-
9	23	4	70		12.40	17	94.5	78.4	3 018	11 590	3 635	1.1	767	51	81
87	36	9	58	61	2.91	70	76.5	65.3	2 049	406	50	1.1	253	17	133
420	41	12		51	0.22	71	79.2	64.6	2 143	288	116	1.2	120	21	141
28	43	16 11	47 56	50 61	0.79	117 75	34.9 63.3	18.2 48.3	2 579 2 808	579 906	33 121	2.0 3.8	271 651	16 19	146 134
1 794	14	7	70	76	10.86	15	90.2	84.7	2 869	6 401	1 660	0.2	807	220	62
186	21	6	70	75	5.14	32	68.7	43.2	3 167	2 579	641	3.4	722	330	101
76	40	16	47	48	0.27	115	57.2	33.0	2 085	373	495	0.9	197	16	148
7	28	8	58	61	2.99	47	88.6	87.4	2 315	4 200	1 512	3.1	494	53	112
31	54	15	50	53	0.24	83	42.9	15.1	2 151	329	40	1.3	129	5	154
440	40	17	48	50	2.82	97	80.1	64.1	2 655	1 161	140	0.6	417	159	130
1 038	41	15	49	51	0.51	109	71.4	59.8	1 956	407	25	1.5	136	31	143
439	32	8	59	63	4.46	64	93.4	82.7	2 615	1 020	90	0.8	306	155	-
169	39	11			0.58	59	52.3	33.0	2 198	968	113	1.6	441	84	131
813	16	7		_	14.97	14	91.4	92.3	2 396	10 292	2 845	1.0	1 115	404	-
206 38	40	16	39 50		0.31	155 88	50.0 49.7	26.8 25.8	1 932 1 628	321 288	13	0.9	181 70	3	-
106	22	15	52		7.71	46	88.9	87.2	2 916	5 819	4 509	1.4	906	84	87
44	32	10	57		3.00	70	71.1	51.8	2 300	1 125	91	4.2	290	102	120
178	30	16	47		1.55	66	84.0	83.7	2 323	2 522	1 266	2.1	455	69	113
128	42	12	51	52	0.22	73	79.0	65.9	2 019	432	80	0.9	306	12	145
315	33	8	56	61	0.45	65	68.7	38.5	2 033	404	98	2.0	240	54	137
171	16	6	72	76	13.46	18	86.4	69.0	3 264	3 292	1 156	1.3	846	275	83
425	46	13	46	51	0.83	82	81.8	65.5	2 371	419	67	2.3	270	79	140
5	40	11	62		-	70	-	-	-	-	-	-	-	-	-
45	43	18		47	1.16	103	80.8	60.7	1 895	950	730	1.8	280	56	129
84	30	16	45	44	1.62	59	94.1	88.3	2 063	237	825	3.8	133	114	126
				7.4					2.5==	2.53					
298	15	6			11.70	13	99.0	98.8	2 855	3 836	1 126	2.0	999	239	85
457 262	10	6	78 77		34.27 36.67	3	99.0 99.0	99.0	3 666	43 975 46 264	7 547	0.0	761 1 297	700 712	20
120	10	15		76	47.80	5	99.0	99.0	2 983	5 384	3 181	1.4	840	321	54
840	11	10	77		42.40	4	99.0	99.0	3 672	44 326	8 084	1.1	1 116	689	24
191	9	10	73		14.20	13	99.0	94.4	2 990	4 506	2 176	1.4	843	347	58
177	10	15	69	76	36.50	10	98.6	97.9	2 815	5 487	4 090	2.2	1 383	349	45
202	10	12	73	79	24.46	5	99.0	98.0	2 983	13 574	3 352	1.8	1 330	506	43

			GENERAL FACTS		
Country	Capital city	Land area (sq miles)	Main languages spoken	Unit of currency	Population (2009)
Cyprus	Nicosia	3 571	Greek, Turkish	Euro, New Turkish Lira	871 000
Czech Republic	Prague	30 442	Czech, Slovak, Hungarian (Magyar)	Czech koruna	10 368 900
Denmark	Copenhagen	16 634	Danish	Danish krone	5 470 300
Estonia	Tallinn	17 457	Estonian, Russian	Kroon	1 340 300
inland	Helsinki	130 524	Finnish, Swedish, Sámi	Euro	5 325 600
rance	Paris	211 154	French, Provençal, German, Breton, Catalan, Basque	Euro	62 342 700
Germany	Berlin	137 807	German, Turkish	Euro	82 166 700
Greece	Athens	50 543	Greek, Turkish, Macedonian, Albanian	Euro	11 161 335
lungary	Budapest	35 910	Hungarian (Magyar)	Forint	9 992 700
celand	Reykjavík	39 758	Icelandic	Icelandic króna	322 700
eland	Dublin	27 128	English, Irish Gaelic	Euro	4 515 500
aly	Rome	116 275	Italian, German, French, Rhaeto-Romanic, Sardinian	Euro	59 870 100
osovo	Priština	4 212	Albanian, Serbian, Bosniak, Gorani, Roma, Turkish	Euro	2 100 000
atvia	Riga	24 931	Latvian, Russian	Lats	2 249 400
iechtenstein	Vaduz	62	German, Alemannish dialect, Italian	Swiss franc	35 000
ithuania	Vilnius	25 167	Lithuanian, Russian	Litas	3 286 500
uxembourg	Luxembourg-Ville	998	Luxembourgish, German, French	Euro	486 200
Aacedonia	Skopje	9 779	Macedonian, Albanian, Turkish, Romani, Serbian	Macedonian denar	2 042 500
Malta	Valletta	122	Maltese, English	Euro	408 700
1oldova	Chisinau	13 063	Moldovan, Ukrainian, Russian	Moldovan leu	3 603 500
Monaco	Monaco-Ville	0.77	French, Italian, Monégasque, English	Euro	32 000
Montenegro	Podgorica	5 331	Montenegrin, Serbian, Albanian, Bosniak, Croatian	Euro	624 200
Netherlands	Amsterdam/The Hague	16 029	Dutch, Frisian	Euro	16 592 232
lorway	Oslo	125 149	Norwegian (Bokmål "book language" and Nynorsk "new Norsk"), Sámi	Norwegian krone	4 812 200
oland	Warsaw	120 696	Polish	Zloty	38 073 700
ortugal	Lisbon	35 663		Euro	10 707 100
Romania	Bucharest		Romanian, Hungarian (Magyar), Romani, German	New Romanian leu	21 274 700
tussian Federation an Marino	Moscow San Marino	6 591 027 24	Russian, Tatar, Ukrainian, Chavash, various other national languages Italian	Russian rouble Euro	140 873 600 31 400
erbia	Belgrade	29 905	Serbian, Hungarian (Magyar)	Serbian Dinar	7 750 000
ilovakia	Bratislava	18 854	Slovak, Hungarian (Magyar), Czech	Euro	5 405 700
lovenia	Ljubljana	7 825	Slovenian	Euro	2 020 100
pain	Madrid	194 846	Spanish, Catalan, Galician, Basque	Euro	44 903 700
weden	Stockholm	173 686	Swedish, Finnish, Sámi	Swedish krona	9 249 200
witzerland	Bern	15 938	German, Swiss-German, French, Italian, Romansch	Swiss franc	7 567 700
Jkraine	Kiev	233 028	Ukrainian, Russian, Tatar	Hryvna	45 708 100
Jnited Kingdom	London	94 501	English, Welsh, Scottish Gaelic, Irish Gaelic	Pound sterling	61 565 400
/atican City	Vatican City	0.17	Italian, Latin	Euro	800
ASIA					
Afghanistan	Kabul	249 935	Pashtu, Tajik, Dari, Farsi, Uzbek, Turkmen	Afghani	28 149 900
Armenia	Yerevan	11 503	Armenian, Azeri, Russian	Dram	3 083 000
Azerbaijan	Baku	33 428	Azeri, Russian	New manat	8 832 200
, Bahrain	Manama	257	Arabic	Bahraini dinar	791 500
Bangladesh	Dhaka	55 584	Bengali, Urdu, Chakma, Marma (Magh), Garo, Khasi, Santhali, Tripuri, Mro	Taka	162 220 800
hutan	Thimphu	18 142	Dzongkha, Nepali, Assamese	Ngultrum	697 300
Brunei	Bandar Seri Begawan	2 227	Malay, English, Chinese	Brunei dollar	399 700
Cambodia	Phnom Penh	69 881	Khmer, French, Chinese, Vietnamese, Cham	Riel	14 805 400
China	Beijing	3 704 427	Mandarin, Wu, Cantonese, Hsiang, Min, Hakka, Kan	Renminbi (known as yuan)	1 345 751 000
ast Timor	Dili	5 793	Tetum (Portuguese/Austronesian), Bahasa Indonesia, Portuguese	US dollar	1 133 600
Georgia	Tbilisi	26 904	Georgian, Russian, Azeri, Armenian, Mingrelian, Ossetian, Abkhazian	Lari	4 260 300
India	New Delhi	1 269 010	Hindi, English, Urdu, Bengali, Marathi, Telugu, Tamil, Bihari, Gujarati, Kanarese	Indian rupee	1 198 003 300

POPULATION Population Birth rate Death rate Life expectance					HE/	ALTH AN	D EDU	CATION	V		ECONOM DEVELOPM		TECHNOLOGICAL DEVELOPMENT			
Population density per sq mile (2009)	Birth rate per 1000 population (2005– 2010)	Death rate per 1000 population (2005– 2010)	Life exp at birth 2007)		Medical doctors per 10 000 people (1997–2007)	Infant mortality (deaths per 1000 live births; 2007)	Adult lite rate (per of adults 15; 2000	centage over	Average calorie intake per person (2005)	GNI per person (US\$; 2008)	Annual electricity consumption per person (kWh; 2007)	Annual military expenditure as percentage of GDP (2005–2008)	Mobile telephones per 1000 population (2008)	Internet users per 1000 population (2008)	ICT Dev. Index (IDI), compiled by the ITU (2009)	
			Male	Female			Male	Female								
244	12	7	78	82	23.10	3	99.0	96.6	3 189	24 940	5 425	2.2	1 179	388	37	
341	11	11	74	80	35.88	3	99.0	99.0	3 339	16 605	6 044	1.5	1 335	584	40	
334	12	10	76	81	35.70	4	99.0	99.0	3 374	59 129	6 507	1.3	1 257	839	3	
77	12	13	67	79	33.95	5	99.0	99.0	3 060	14 270	5 912	2.3	1 882	662	26	
45	11	9	76	83	32.70	3	99.0	99.0	3 237	48 125	16 368	1.3	1 288	826	9	
294	12	9	77	84	34.10	3	99.0	99.0	3 599	42 250	7 344	2.3	935	682	23	
609 221	10	10	77	82 82	34.40 50.10	4	99.0 98.2	99.0 96.0	3 510 3 698	42 436 28 650	6 618 5 201	1.3 3.5	1 283 1 239	753 435	13 34	
280	10	13	69	78	30.30	6	99.0	98.8	3 435	12 810	3 777	1.2	1 221	587	35	
8	15	6	80	83	37.70	2	99.0	99.0	3 283	40 074	37 157	0.0	1 086	906	5	
170	16	6	77	82	29.50	3	99.0	99.0	3 675	49 592	5 843	0.6	1 207	625	18	
527	9	10	79	84	37.00	3	99.0	98.6	3 685	35 237	5 412	1.8	1 516	419	22	
499	16	3	67	71	10.83	11	96.6	87.5	-	1 800	3 294	-	_	-	_	
90	10	14	66	76	31.30	9	99.0	99.0	3 146	11 864	2 966	1.9	989	606	36	
565	10	7	77	84	13.10	2	99.0	99.0	-	99 160	-	0.0	954	660	-	
131	10	13	65	77	39.70	6	99.0	99.0	3 415	11 871	2 827	1.6	1 512	550	33	
487	11	8	77	83	27.30	3	99.0	99.0	3 701	84 892	13 587	0.7	1 471	805	7	
206 3 296	11	9	72 78	76 82	25.90 38.80	15 5	98.6 91.2	95.4 93.5	2 873 3 553	4 138 19 703	3 679 4 559	2.0	1 226 946	415	65 30	
277	12	13	65	73	26.55	16	99.0	98.9	2 948	1 469	1 040	0.4	667	234	68	
42 667	9	13	78	85	66.30	4	99.0	99.0	2 3-10	40 421	-	0.0	673	673	-	
117	12	10	72	76	18.00	9	-		-	6 440	3 294	1.5	1 181	472	-	
1 267	11	8	78	82	37.10	4	99.0	99.0	3 240	50 150	6 720	1.4	1 248	866	4	
41	12	9	78	83	38.09	3	99.0	99.0	3 464	87 068	24 352	1.3	1 102	826	6	
324	10	10	71	80	19.75	6	99.0	99.0	3 381	11 884	3 359	2.0	1 153	490	39	
302	10	10	76	82	34.40	3	96.6	93.3	3 612	20 556	4 602	2.0	1 396	419	31	
239	10	12		77	19.20	12	98.3	96.9	3 493	7 928	2 300	1.5	1 145	290	46	
21	11	15		73	43.10	10	99.0	99.0	3 157	9 623	5 922	3.6	1 411	320	50	
1 308	10	9		84 76	25.00 24.17	7	99.0	99.0 94.1	2 691	53 910 5 705	3 294	2.3	770 978	545 335	-	
286	10	10		78	31.24	6	99.0	99.0	2 860	14 541	4 966	1.6	1 022	661	38	
258	10	10		81	23.60	3	99.0	99.0	3 351	24 013	6 751	1.6	1 020	559	28	
233	11	9		84	32.92	4	98.6	97.3	3 326	31 963	6 019	1.2	1 117	567	27	
58	12	10	79	83	32.80	2	99.0	99.0	3 137	50 943	14 784	1.3	1 183	878	1	
493	10	8	79	84	39.47	4	99.0	99.0	3 387	65 334	7 893	0.8	1 180	770	8	
196	10	16	62	73	31.25	14	99.0	99.0	3 182	3 213	3 365	2.7	1 211	106	51	
660	12	10		82	21.45	5	99.0	99.0	3 401	45 394	5 763	2.5	1 263	762	10	
4 706	-	-	79	84		-	99.0	99.0			-	0.0		-	-	
110		25		42	2.0-	105	40.4	10.0	4.500	105	2.		205			
112 268	47 15	20		42 73	2.00 37.10	165 22	43.1 99.0	12.6 99.0	1 539 2 240	429 3 354	1 592	3.2	1 000	18 62	72	
264	19	7		70	36.20	34	99.0	99.0	2 603	3 829	1 845	2.7	750	280	86	
2 899	18	3		76	27.24	9	90.4	86.4	-	27 248	14 248	3.4	1 858	520	42	
3 138	22	7	63		3.02	47	58.7	48.0	2 261	516	145	1.1	279	4	138	
38	22	7		65	0.23	56	65.0	38.7	-	1 896	230	1.0	366	66	115	
196	20	3	74	77	11.73	8	96.5	93.1	3 255	37 053	7 811	2.4	959	553	41	
217	25	8	58	64	1.51	70	85.8	67.7	2 199	603	87	1.1	291	5	121	
374	14	7	72	75	14.30	19	96.5	90.0	2 970	2 940	2 129	2.0	480	223	73	
201	40	9	58		0.96	77	-	-	2 169	2 464	-	-	92	2	-	
158	12	12		76	46.80	27	99.0	99.0	2 521	2 472	1 569	8.1	640	238	80	
1 044	23	9	63	65	5.97	54	76.9	54.5	2 348	1 066	500	2.4	294	44	11	

			GENERAL FACTS		
Country	Capital city	Land area (sq miles)	Main languages spoken	Unit of currency	Population (2009)
Indonesia	Jakarta	740 904	Javanese, Sundanese, Madurese, Bahasa Indonesia, Dutch	Rupiah	229 964 700
Iran	Tehran	636 128	Farsi, Azeri, Luri, Gilaki, Mazanderani, Kurdish, Turkmen, Arabic, Baluchi	Iranian rial	74 195 700
Iraq	Baghdad	168 710	Arabic, Kurdish, Turkic languages, Armenian, Assyrian	New Iraqi dinar	30 747 300
Israel	Jerusalem (disputed)	8 017	Hebrew, Arabic, Yiddish, German, Russian, Polish, Romanian, Persian	Shekel	7 169 600
lapan	Tokyo	145 844	Japanese, Korean, Chinese	Yen	127 156 200
Jordan	Amman	35 628	Arabic	Jordanian dinar	6 316 400
Kazakhstan	Astana	1 048 878	Kazakh, Russian, Ukrainian, German, Uzbek, Tatar, Uighur	Tenge	15 637 000
Kuwait	Kuwait City	6 879	Arabic, English	Kuwaiti dinar	2 985 000
Kyrgyzstan	Bishkek	76 621	Kyrgyz, Russian, Uzbek, Tatar, Ukrainian	Som	5 482 200
Laos	Vientiane	91 405	Lao, Mon-Khmer, Yao, Vietnamese, Chinese, French	New kip	6 320 400
Lebanon	Beirut	4 014	Arabic, French, Armenian, Assyrian	Lebanese pound	4 223 600
Malaysia	Kuala Lumpur/Putrajaya	127 284	Bahasa Malaysia, Malay, Chinese, Tamil, English	Ringgit	27 467 800
Maldives	Male'	116	Dhivehi (Maldivian), Sinhala, Tamil, Arabic	Rufiyaa	309 400
Mongolia	Ulan Bator	603 749	Khalkha Mongolian, Kazakh, Chinese, Russian	Tugrik (tögrög)	2 671 000
Myanmar	Nay Pyi Taw	265 375	Burmese, Shan, Karen, Rakhine, Chin, Yangbye, Kachin, Mon	Kyat	50 019 800
Nepal	Kathmandu	54 349	Nepali, Maithili, Bhojpuri	Nepalese rupee	29 330 500
North Korea	Pyongyang	46 528	Korean	North Korean won	23 906 100
Oman	Muscat	82 010	Arabic, Baluchi, Farsi, Hindi, Punjabi	Omani rial	2 845 400
Pakistan	Islamabad	310 321	Punjabi, Sindhi, Pashtu, Urdu, Baluchi, Brahui	Pakistani rupee	180 808 100
Philippines	Manila	115 800	Filipino, English, Tagalog, Cebuano, Ilocano, Hiligaynon, many other local languages	Philippine peso	91 983 100
Qatar	Doha	4 415	Arabic	Qatar riyal	1 409 400
Saudi Arabia	Riyadh	756 785	Arabic	Saudi riyal	25 720 600
Singapore	Singapore	267	Mandarin, Malay, Tamil, English	Singapore dollar	4 736 878
South Korea	Seoul	38 013	Korean	South Korean won	48 332 800
Sri Lanka	Colombo	25 325	Sinhala, Tamil, Sinhala-Tamil, English	Sri Lanka rupee	20 237 700
Syria	Damascus	71 480	Arabic, French, Kurdish, Armenian, Circassian, Turkic languages, Assyrian, Aramaic	Syrian pound	21 906 156
Taiwan	Taipei	13 888	Amoy Chinese, Mandarin Chinese, Hakka Chinese	Taiwan dollar	22 974 347
Tajikistan	Dushanbe	55 237	Tajik, Uzbek, Russian	Somoni	6 952 200
Thailand	Bangkok	198 404	Thai, Chinese, Malay, Khmer, Mon, Karen, Miao	Baht	67 764 000
Turkey	Ankara	301 304	Turkish, Kurdish, Arabic, Circassian, Armenian, Greek, Georgian, Ladino	New Turkish lira	74 815 700
Furkmenistan	Ashgabat	188 407	Turkmen, Uzbek, Russian, Kazakh, Tatar	New manat	5 109 900
United Arab Emirates	Abu Dhabi	31 992	Arabic, Farsi, Indian and Pakistani languages, English	UAE dirham	4 598 600
Uzbekistan	Tashkent	172 696	Uzbek, Russian, Tajik, Kazakh	Som	27 488 200
Vietnam	Hanoi	127 210	Vietnamese, Chinese, Thai, Khmer, Muong, Nung, Miao, Yao, Jarai	Dông	88 068 900
Yemen	Sana	203 796	Arabic	Yemeni rial	23 580 200
AUSTRALASIA & OC	CEANIA				
Australia	Canberra	2 967 124	English, Italian, Cantonese, Greek, Arabic, Vietnamese, Aboriginal languages	Australian dollar	21 292 900
Fiji	Suva	7 052	Fijian, English, Hindi, Urdu, Tamil, Telugu	Fiji dollar	849 200
Kiribati	Bairiki (Tarawa Atoll)	313	English, Kiribati	Australian dollar	99 000
Marshall Islands	Majuro	70	Marshallese, English, Japanese, German	US dollar	54 100
Micronesia	Palikir (Pohnpei Island)	271	Trukese, Pohnpeian, Kosraean, Yapese, English	US dollar	110 700
Nauru	None	8	Nauruan, Kiribati, Chinese, Tuvaluan, English	Australian dollar	9 800
New Zealand	Wellington	103 710	English, Maori	New Zealand dollar	4 266 500
Palau	Melekeok	177	Palauan, English, Japanese, Angaur, Tobi, Sonsorolese	US dollar	20 400
Papua New Guinea	Port Moresby	178 656	Pidgin English, Papuan, English, Motu, around 800 native languages	Kina	6 732 200
Samoa	Apia	1 136	Samoan, English	Tala	178 800
Solomon Islands	Honiara	10 982	English, Pidgin English, Melanesian Pidgin, around120 others	Solomon Islands dollar	523 200
Tonga	Nuku'alofa	289	English, Tongan	Pa'anga (Tongan dollar)	104 000
Tuvalu	Fongafale (Funafuti Atoll)	10	Tuvaluan, Kiribati, English	Australian \$, Tuvaluan \$	11 100
Vanuatu	Port Vila	4 709	Bislama (Melanesian pidgin), English, French, other indigenous languages	Vatu	239 800

РО	PULATIO	N		HE	ALTH AN	D EDU	CATION	7		ECONOM DEVELOPM		TECHNOLOGICAL DEVELOPMENT			
Population density per sq mile (2009)	Birth rate per 1000 population (2005– 2010)	Death rate per 1000 population (2005– 2010)	Life exp at birth 2007)		Medical doctors per 10 000 people (1997–2007)	Infant mortality (deaths per 1000 live births; 2007)	Adult lite rate (per of adults 15; 2000	centage over	Average calorie intake per person (2005)	GNI per person (US\$; 2008)	Annual electricity consumption per person (kWh; 2007)	Annual military expenditure as percentage of GDP (2005–2008)	Mobile telephones per 1000 population (2008)	Internet users per 1000 population (2008)	ICT Dev. Index (IDI), compiled by the ITU (2009)
			Male	Female			Male	Female							
332	19	6	67	70	1.34	25	95.2	88.8	2 434	2 007	523	1.0	618	79	108
117	19	6	70	74	8.90	29	87.3	77.2	3 102	4 732	2 160	2.5	586	314	78
182	32	6	58	69	6.60	36	84.1	64.2	2 197	2 815	1 002	2.5	582	10	-
913	20	6	79	82	36.97	4	98.5	95.9	3 622	24 699	6 592	8.1	1 274	496	29
875	8	9	79	86	21.16	3	99.0	99.0	2 739	38 207	7 849	0.9	867	754	12
184	26	4	70	74	24.00	18	95.2	87.0	2 909	3 306	1 733	6.2	866	260	76
15	20	11	59	70	38.90	28	99.0	99.0	3 218	6 140	4 371	1.0	961	110	69
434 72	18	7	78	79 69	17.90 23.98	9	95.2 99.0	93.1 99.0	3 099 3 115	45 920 741	14 360 1 667	3.9 2.8	996 627	343 157	57 93
72	28	7	63	62	3.45	33 56	82.5	63.2	2 340	753	495	0.3	326	85	117
1 069	16	7	68	73	23.44	26	93.4	86.0	3 180	6 353	2 276	4.5	340	225	64
217	21	5	70	75	7.40	10	94.2	89.6	2 863	6 967	3 788	2.0	1 026	558	52
2 667	19	5	72	75	9.21	26	97.0	97.1	2 657	3 626	518	5.5	1 428	235	71
4	19	7	60	69	25.89	35	96.8	97.7	2 213	1 677	1 045	1.4	668	125	88
197	21	10	53	59	3.55	79	93.9	86.4	2 439	386	85	2.1	7	2	119
555	26	7	62	63	2.09	43	70.3	43.6	2 417	404	80	1.5	146	17	139
514	14	10	64	68	32.86	42	-	-	2 173	555	771	25.0		-	-
35	22	3	71	77	16.50	11	89.4	77.5	-	18 988	4 206	11.3	1 156	200	77
607	30	7	63	64	8.00	73	67.7	39.6	2 318	981	439	3.2	497	105	127
799	25	5	67	74	11.50	23	93.1	93.7	2 501	1 886	570	0.8	754	62	91
332	12	2	76	76	26.45	8	93.8	90.4	-	93 204	15 130	4.4	1 314	340	44
32	24	4	69	74	13.76	20	89.1	79.4	3 061	19 345	6 399	8.2	1 429	308	55
20 072	8	5	78	83	14.80	2	97.3	91.6	-	34 762	8 318	4.1	1 382	730	15
1 268	10	6	76	82	15.73	4	99.0	99.0	3 053	21 525	8 028	2.6	947	765	2
810 308	18 28	6		75 75	5.46	17 15	92.7 89.7	89.1 76.5	2 350 3 042	1 789 2 094	377 1 368	3.0	552 332	58 168	100
1 844	9	7		82	16.00	5	99.0	95.9	3 042	17 273	9 423	3.4	1 103	657	25
126	28	6		68	20.10	57	99.0	99.0	2 259	596	2 156	3.9	537	88	106
344	15	9		74	3.65	6	95.9	92.6	2 510	2 844	1 896	1.6	920	239	63
252	18	6	71	76	15.64	21	96.2	81.3	3 354	9 345	2 043	2.1	891	344	59
27	22	8	60	67	24.92	45	99.0	99.0	2 767	2 840	2 090	3.4	225	15	104
142	14	2	77	80	18.37	7	89.5	91.5	2 922	54 607	13 745	1.9	2 087	652	32
159	20	7	65	71	26.53	36	98.0	95.8	2 497	906	1 531	2.0	468	91	110
701	17	5	70	75	5.61	13	93.9	86.9	2 698	892	686	2.0	804	239	92
108	37	7	62	66	3.26	55	77.0	40.5	2 001	950	185	4.5	161	16	124
7	13	7	79	84	24.81	5	99.0	99.0	3 077	40 351	10 622	1.9	1 050	720	14
120	21	7	67	72	4.53	16	95.9	92.9	3 001	3 934	939	1.3	711	122	84
361	30	8	63	68	1.98	46	99.0	99.0	2 854	1 995	121	0.0	10	21	-
733	31	4	57	59	5.62	49	-	-	-	3 273	-	0.0	17	36	-
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GLOSSARY

This glossary defines certain geographical and technical terms used in this Atlas.

Acid rain Rain, sleet, snow, or mist that has absorbed waste gases from fossil-fueled power stations and vehicle exhausts, becoming acidic and poisonous.

Alluvium Material deposited by a river such as silt sand and mud

Archipelago A group, or chain, of islands

Atoll A circular or horseshoe-shaped coral reef enclosing a shallow area of water (lagoon).

Aquifer A body of rock that can absorb water. It may be a source of water for wells or springs.

Bar, coastal An offshore strip of sand or shingle, either above or below the water

Biodiversity The quantity of different animal or plant species in a given even

Birthrate The number of live births per 1,000 individuals annually within a population.

Cash crop Agricultural produce grown for sale, often for foreign export, rather than to be consumed within the country or area in which it was grown.

Climate The long-term trends in weather conditions for an area.

Coniferous forest A type of forest containing trees or shrubs, like pines and firs, that have needles instead of leaves. They are found in temperate zones.

Continental plates The huge interlocking plates that make up the Earth's surface. A plate boundary is an area where two plates meet, and is the point at which earthquakes occur most frequently.

Conurbation A large urban area created by the merging of several towns.

Coral reef An underwater barrier created by colonies of coral polyps. The polyps secrete a protective skeleton of calcium carbonate, and reefs develop as live polyps build on the skeletons of dead generations.

Core The layers of liquid rock and solid iron at the center of the Earth.

Crust The hard, thin outer shell of the Earth. The crust floats on the mantle, which is softer, but more dense.

Deciduous forest A type of broadleaf forest found in temperate regions.

Deforestation Cutting down trees or forest for timber or farmland. It can lead to soil erosion, flooding, and landslides

Delta A low-lying, fan-shaped area at a river mouth, formed by the deposition of successive layers of sediment. Slowing as it enters the sea, a river deposits sediment and may, as a result, split into many smaller channels called distributaries.

Deposition The laying down of material broken down by erosion or weathering and transported by the wind, water, or gravity.

Desertification The spread of desert conditions into a region that was not previously a desert

Drainage basin The land drained by a river and its tributaries.

Drought A long period of continuously low rainfall.

Earthquake A trembling or shaking of the ground caused by the sudden movement of rocks in the Earth's crust – and sometimes deeper than the crust. Earthquakes occur most frequently along continental plate boundaries.

Economy The organization of a country's finances, exports, imports, industry, agriculture, and services.

Ecosytem A community of species dependent on each other and on the habitat in which they live.

Equator The 0° line of latitude Equatorial climates are hot and there is plenty of rain.

Erosion The wearing down of the land surface by running water, waves, moving ice, wind, and weather.

Estuary The mouth of a river, where the saltwater from the sea meets the freshwater of the river.

Fault A crack or fracture in the Earth along which there has been movement of the rock masses relative to one another.

Fjord A coastal valley that was sculpted by glacial action.

Floodplain The broad, flat part of a river valley, next to the river itself, formed by sediment deposited during flooding.

Geyser A fountain of hot water or steam that erupts periodically as a result of underground streams coming into contact with hot rocks.

GDP Gross Domestic Product. The total value of goods and services produced by a country, excluding income from foreign countries.

GIS Geographic Information System. A computerized system for the collection, storage, and retrieval of geographic data. **Glacier** A huge mass of ice made up of compacted and frozen snow, that moves slowly, eroding and depositing rock.

Glaciation The molding of the land by a glacier

GNI Gross National Income. The total value of goods and services produced by a country

Groundwater Water that has seeped into the pores, cavities, and cracks of rocks or into soil and water held in an aquifer or permeable rock

Gully A deep, narrow chasm eroded in the landscape by a fast-flowing stream.

Heavy industry Industry that uses large amounts of energy and raw materials to produce heavy goods, such as machinery, ships, or locomotives

Humidity The moisture content of the air.

Hurricane A violent tropical storm, also known as a cyclone in the Indian Ocean and a typhoon in the Pacific Ocean.

Hydroelectric power Energy produced by harnessing the rapid movement of water down steep mountain slopes to drive turbines to generate electricity.

Ice Age Periods of time in the past when much of the Earth's surface was covered by massive ice sheets. The most recent Ice Age began two million years ago and ended 10,000 years ago.

Iceberg A floating mass of ice that has broken off from a glacier or ice sheet.

Ice sheet A massive area of ice, thousands of feet thick

Irrigation The artificial supply of water to dry areas – mainly for agricultural use. Water is carried or pumped to the area through pipes or ditches.

Lagoon A shallow stretch of coastal saltwater behind a partial barrier such as a sandbank or coral reef.

Latitude The distance north or south of the equator, measured in degrees, and shown on a globe as imaginary circles running around the Earth parallel to the equator.

Lava The molten rock, magma that erupts onto the Earth's surface through a volcano, or through a fault or crack in the Earth's crust. Lava refers to the rock both in its liquid and its later solidified form

Load The material that is carried by a river or stream.

Longitude The distance, measured in degrees, east or west of the Prime Meridian

Limestone A type of rock, formed by sediment, through which water can pass.

Magma Underground, molten rock, that is very hot and highly charged with gas. It originates in the Earth's lower crust or mantle

Mantle The layer of the Earth's interior between the crust and the core. It is about 1,800 miles thick

Map projection A mathematical formula that is used to show the curved surface of the Earth on a flat map.

Market gardening The intensive growing of fruit and vegetables close to large local markets.

Meander A looplike bend in a river. As a river nears the sea, it tends to wind more and more. The bigger the river and the shallower its slope, the more likely it is that meanders will form

Mediterranean climate A temperate climate of hot, dry summers and warm, damp winters.

Meltwater Water that has melted from glaciers or ice sheets.

Mestizo A person of mixed native American and European origin.

Mineral A chemical compound that occurs naturally in the Earth

Monsoon Winds that change direction according to the seasons. They are most common in South and East Asia, where they blow from the southwest in summer, bringing heavy rainfall, and the northeast in winter.

Moraine Sand and gravel that have been deposited by a glacier or ice sheet.

Nomads (nomadic) Wandering communities who move around in search of suitable pasture for their herds of animals.

Oasis A fertile area in a desert, usually watered by an underground aquifer.

Pack ice Ice masses more than 10 ft thick that form on the sea surface and are not attached to a landmass.

Pacific Rim The name given to the economically dynamic countries bordering the

Peat Decomposed vegetation found in bogs. It can be dried and used as fuel.

Per capita A latin term meaning "for each person."

Plantation A large farm on which only one crop is usually grown, e.g., bananas or coffee.

Plain A flat, level region of land, often relatively low-lying

Plateau A large area of high, flat land. When surrounded by steep slopes it is called a tableland.

Peninsula A thin strip of land surrounded on three of its sides by water. Large examples include Italy, Florida, and Korea.

Permafrost Permanently frozen ground, in which temperatures have remained below 32°F for more than two years.

Precipitation The fall of moisture from the atmosphere onto the surface of the Earth, as dew, hail, rain, sleet, or snow

Prairie A Spanish-American term for grassy plains, with few or no trees

Prime Meridian 0° longitude. Also known as the Greenwich Meridian because it runs through Greenwich in England

Rain forest Dense forests in tropical zones with high rainfall, temperature, and humidity.

Rain shadow An area downwind from high terrain that has little or no rainfall because it has fallen upon the high relief.

Remote-sensing A way of obtaining information about the environment by using unmanned equipment, such as a satellite, that relays the information to a point where it is collected.

Ria A flooded V-shaped river valley or estuary flooded by a rise in sea level or sinking land.

Rift valley A long, narrow depression in the Earth's crust formed by the sinking of rocks between two faults.

Savanna Open grassland, where an annual dry season prevents the growth of most trees. They lie between the tropical rain forest and hot desert regions.

Scale The relationship between distance on a map and on the Earth's surface.

Sediment Grains of rock transported and deposited by rivers, sea, ice, or wind.

Semiarid Areas between deserts and better-watered areas, where there is sufficient moisture to support a little more vegetation than in a true desert.

Service industry An industry that supplies services, such as banking, rather than producing manufactured goods.

Shanty town An area in or around a city where people live in temporary shacks, usually without basic facilities such as running water.

Silt Small particles, finer than sand, often carried by water and deposited on riverbanks, at river mouths, and harbors.

Soil A thin layer of rock particles mixed with the remains of dead organisms. Soil occurs naturally on the surface of the Earth and provides a medium for plants to grow.

Soil erosion The wearing away of soil more quickly than it is replaced by natural processes. Overgrazing and the clearing of land for farming speeds up the process.

Sorghum A type of grass found in South America, similar to sugarcape

Spit A narrow bank of pebbles or sand extending out from the seashore. Spits are made out of material transported along the coast by currents, wind,

Staple crop The main food crop grown in a region, for example, rice in Southeast Asia.

Steppe Large areas of dry grassland in the Northern Hemisphere – particularly found in southeast Europe and central Asia.

Subsistence farming

A method of farming in which enough food is produced to feed farmers and their families but not providing any extra to generate an income.

Taiga A Russian name given to the belt of coniferous forest found in Russia, which borders tundra in the north and mixed forests and grasslands in the south

Temperate The mild, variable climate found in areas between the tropics and cold polar regions

Terrace Steps cut into steep slopes to create flat surfaces for cultivating crops.

Tropics An area between the equator and the Tropic of Cancer and Tropic of Capricorn that has heavy rainfall and high temperatures, and lacks any clear seasonal variation.

Tundra The land area lying in the very cold northern regions of Europe, Asia, and Canada, where winters are long and cold and the ground beneath the surface is permanently frozen.

U-shaped valley A river valley that has been deepened and widened by a glacier. They are flat-bottomed and steep-sided, and usually much deeper than river valleys.

V-shaped valley A typical valley eroded by a river in its upper course.

Volcano An opening or vent in the Earth's crust where magma erupts. Volcanos are caused by the movement of the Earth's plates. When the plates collide or spread apart, magma is forced to the surface, at or near the place where the plates meet.

Watershed The dividing line between one drainage basin and another.

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Bayan Har Shan 129 D4 🕰 C China Bayeux 97 C2 N France Bay Islands 55 D2 island group Bayreuth 101 C5 SE Germany

156 ◆ Administrative region ◆ Country • Country capital Dependent territory O Dependent territory capital Mountain range ▲ Mountain 🛣 Volcano 🚙 River ⊗ Lake

Béchar 70 D2 W Algeria **Beckley** 39 G2 West Virginia, NE USA **Bedford** 95 F2 E England, United Kingdom **Bedford** 40 D7 Indiana, N USA Bedford Level 95 F2 physical region E England, United Kingdom Redum 84 F2 NF Netherlands Bedworth 93 D6 C England, United Kingdom Be'er Menuha 123 H7 S Israel Beernem 84 B6 NW Belgium Be'er Sheva 123 G6 S Israel Reesel 84 F6 SE Netherlands Beeston 93 E5 C England, United Kingdom Beeville 44 G5 Texas, SW USA Bega 137 G6 New South Wales, SE Australia Beihai 129 F6 S China Beijing 129 F3 ● E China Beilen 84 E3 NE Netherlands Beinn Dearg 91 D3 ▲ N Scotland, United Kingdom Beira 76 E5 C Mozambique Béjar 99 C3 N Spain Békéscsaba 105 F8 SE Hungary Bekobod 125 F3 E Uzbekistan

Belarus 109 C2 ◆ republic E Europe

Bekchatów 105 E4 C Poland Belcher Islands 35 C2 island group Nunavut, SE Canada Beledwevne 75 F4 C Somalia Belém 63 G3 N Brazil Belén 55 D5 SW Nicaragua Belen 44 D2 New Mexico, SW USA Belep, Îles 141 F6 island group W New Caledonia Belfast 89 F2 National region capital. E Northern Ireland United Kingdom Belfield 43 A2 North Dakota, N USA Belfort 97 F3 E France Belgaum 127 D6 W India Belgium 84 B7 ♦ monarchy NW Europe Belgorod 111 A6 W Russian Federation Belgrade 107 D2 ● N Serbia Belgrano II 142 B4 Argentinian research station Antarctica Belitung, Pulau 131 C7 island W Indonesia Belize 55 B2 ◆ commonwealth republic Central America

Belize 55 B1 🖨 Belize/Guatemala Belize City 55 C1 NE Belize Belkofski 50 C3 Alaska, USA Bellananagh 89 D3 N Ireland Bellavary 89 B3 NW Ireland
Belle Île 97 A3 island NW France
Belle Isle, Strait of 35 G3 strait
Newfoundland and Labrador, E Canada Belleville 40 B7 Illinois, N USA Bellevue 43 D5 Nebraska, C USA
Bellevue 49 B2 Washington, NW USA
Bellingham 49 B1 Washington, NW USA Bellingshausen Sea 142 A4 sea Antarctica Bellinzona 101 B8 S Switzerland Bello 63 B2 W Colombia Bellona 141 F3 island S Solomon Islands Bellville 76 C7 SW South Africa Belmopan 55 B2 ♠ C Belize Belmullet 89 B3 W Ireland Belo Horizonte 63 G7 SE Brazil Belomorsk 111 B3 NW Russian Federation Beloretsk 111 D6 W Russian Federation Belorussia see Belarus Belozersk 111 B4 NW Russian Federation Belper 93 D5 C England, United Kingdom Belton 44 H4 Texas, SW USA
Belturbet 89 D3 N Ireland
Belukha, Gora 118 D5 ▲ Kazakhstan/ Russian Federation Belyy, Ostrov 118 D2 island N Russian Federation Bemaraha 76 G5 A W Madagascar Bemidji 43 E2 Minnesota, N USA Bemmel 84 E4 SE Netherlands Benavente 99 C2 N Spain Benbecula 91 A3 island NW Scotland, United Kingdom

Bend 49 B4 Oregon, NW USA Bendery see Tighina
Bendigo 137 F6 Victoria, SE Australia
Benešov 105 B5 W Czech Republic Benevento 103 D6 S Italy Benghu 129 G4 E China Benghazi 70 G2 NE Libya Bengkulu 131 B7 Sumatra, W Indonesia Benguela 76 B4 W Angola
Ben Hope 91 D2 ▲ N Scotland,
United Kingdom
Beni 76 D1 NE Dem. Rep. Congo Beni 76 D1 NE Dem. Rep. Congo Benidorm 99 F4 SE Spain Beni-Mellal 70 C2 C Morocco Benin 72 D4 ◆ republic W Africa Benin, Bight of 72 E5 gulf W Africa Benin City 72 E5 SW Nigeria Beni, Rio 65 A2 ØN Bolivia Ben Kilbreck 91 C2 ▲ N Scotland, United Kingdom

Ben Lawers 91 D5 ▲ C Scotland, United Kingdom

Ben Lui 91 C5 ▲ C Scotland, United Kingdom

Ben Macdui 91 E4 ▲ C Scotland, United Kingdom Ben More 91 B5 ▲ W Scotland, United Kingdom

Ben More 91 D5 ▲ C Scotland, United Kingdom Ben More Assynt 91 D2 ▲ N Scotland,

Ben Nevis 91 C4 A N Scotland. United Kingdom

Benson 44 C3 Arizona, SW USA Benton 39 B4 Arkansas, C USA
Benton Harbor 40 D5 Michigan, N USA
Benue 72 F5 😂 Cameroon/Nigeria Beograd see Belgrade Rerat 107 D4 C Albania Berat 107 D4 C Albania Berau, Teluk 131 H7 bay Papua, E Indonesia Berbera 75 F3 NW Somalia Berbérati 72 G5 SW Central African Republic

Berck-Plage 97 D1 N France

Berdyans'k 109 G6 SE Ukraine Bereket 125 C3 W Turkmenistan
Berettyó 105 F8 😂 Hungary/Romania Berettyóújfalu 105 F7 E Hungary Berezniki 111 D5 NW Russian Federation Berga 99 G2 NE Spain Bergamo 103 B2 N Italy Bergen 101 D2 NE Geri Bergen 84 C3 NW Netherlands Bergen 83 A5 S Norway Bergerac 97 C5 SW France Bergeyk 84 D6 S Netherlands Bergse Maas 84 D5 & S Netherlands Beringen 84 D6 NE Belgium Bering Sea 50 B1 sea N Pacific Ocean Bering Strait 50 D1 strait Bering Sea/Chukchi Sea Berja 99 E6 S Spain Berkeley 49 B7 California, W USA Berkhamsted 95 F3 SE England, United Kingdom Rerkner Island 142 R4 island Antarctica Berlin 101 D3 ● NE Germany
Berlin 37 F3 New Hampshire, NE USA Bermejo, Río 65 B3 A N Argentina Bermeo 99 E1 N Spain
Bermuda 26 UK ♦ NW Atlantic Ocean Bern 101 A8 • W Switzerland Bernau 101 D3 NE Germany Bernburg 101 D4 C Germany Berner Alpen 101 A8 ▲ SW Switzerland
Berneray 91 A4 island NW Scotland,
United Kingdom
Bernier Island 137 A4 island Western Australia Berry 97 D3 cultural region C France Berry Islands 57 C1 island group N Bahamas Bertoua 72 G5 E Cameroon Berwick-upon-Tweed 93 D1 N England, United Kingdom Besançon 97 E4 E France Bessbrook 89 E3 S Northern Ireland, United Kingdom Betafo 76 G5 C Madagascar Betanzos 99 BI NW Spain Bethlehem 76 D6 C South Africa Bethlehem 37 D5 Pennsylvania, NE USA Bethlehem 123 H6 C West Bank Béticos, Sistemas 99 D5 ♠ S Spain
Bétou 76 C1 N Congo
Bette, Picco 70 G4 ♠ S Libya Betws-y-Coed 93 B5 N Wales, United Kingdom Beulah 40 D3 Michigan, N USA Beveren 84 C6 N Belgium Beverley 93 F4 E England, United Kingdom Bexhill 95 G4 SE England, United Kingdom

Beyla 72 C4 SE Guinea Beyrouth see Beirut Beyşehir Gölü 120 B4 ⊗ C Turkey Béziers 97 D6 S France Bhadravati 127 D6 SW India Bhagalpur 127 F3 NE India Bhaktapur 127 F3 C Nepal Bharuch 127 C4 W India Bhavnagar 127 C4 W India Bhonal 127 D4 C India Bhubaneshwar 127 F4 E India
Bhusawal 127 D4 C India
Bhutan 127 G3 ◆ monarchy S Asia Biak, Pulau 131 H6 island E Indonesia Biała Podlaska 105 G3 E Poland Białogard 105 C2 NW Poland Białystok 105 G2 NE Poland Biarritz 97 B6 SW France Bicester 95 E3 C England, United Kingdom Biddeford 37 F3 Maine, NE USA Bideford 95 B4 SW England, United Kingdom Biel 101 A8 W Switzerland Bielefeld 101 B4 NW Germany Bielsko-Biała 105 E5 S Poland Bielsk Podlaski 105 G3 E Poland **Biên Hoa** 131 C4 S Vietnam **Bienville, Lac** 35 D3 ⊗ Québec, C Canada Bié Plateau 76 C4 plateau C Angola Big Bend National Park 44 E5 national park Texas, S USA
Bigbury Bay 95 B6 bay SW England United Kingdom Big Cypress Swamp 39 G8 wetland Florida, SE USA Biggleswade 95 F2 C England, United Kingdom Bighorn Mountains 47 E3 ▲ Wyoming, C USA Bighorn River 47 E3 A Montana/ Blagoveshchensk 118 H5 Wyoming, NW USA

Big Sioux River 43 D4 😝 Iowa/South
Dakota, N USA SE Russian Federation

Blairgowrie 91 E5 C Scotland

Big Smoky Valley 47 B6 valley Nevada, W USA

and Herzegovina

Bihar 127 F3 cultural region N India Asia

Big Spring 44 F3 Texas, SW USA Bihać 107 B2 NW Bosnia

Biharamulo 75 C6 NW Tanzania Bihar Sharif 127 F3 NE India Bihosava 109 C1 NW Belarus Rijelo Polie 107 D3 E Montenegro Bikaner 127 D3 NW India Bikin 118 H5 SE Russian Federation Bilaspur 127 E4 C India Bilasuvar 121 I3 SE Azerbaijan Bila Tserkva 109 D4 N Ukraine Bilauktaung Range 131 B4 ▲ Burma (Myanmar)/Thailand Bilbao 99 E1 N Spain Bilecik 120 B3 NW Turkey Billingham 93 E2 N England. United Kingdom

Billings 47 E2 Montana, NW USA

Bilma, Grand Erg de 72 G2 desert NE Niger **Biloela** 137 H4 Queensland, E Australia Biloxi 39 C6 Mississippi, S USA Biltine 72 H3 E Chad Bilzen 84 D6 NE Belgium Bimini Islands 57 C1 island group W Bahamas Binche 84 C7 S Belgium Binghamton 37 D4 New York, NE USA Bingöl 121 F3 E Turkey Bintulu 131 D6 C Malavsia Binzhou 129 G3 E China Bío Bío, Río 65 A6 A C Chile Bioco, Isla de 72 F6 island NW Equatorial Guinea Birak 70 F3 C Libya
Birao 72 I4 NE Central African Republic Biratnagar 127 F3 SE Nepal Birdhill 89 C5 S Ireland Birhar Sharif 127 F3 N India Birjand 123 F2 E Iran Birkenfeld 101 A6 SW Germany Birkenhead 93 C4 NW England, United Kingdom

Birmingham 93 D6 C England, United Kingdom
Birmingham 39 D4 Alabama, S USA
Bîr Mogreïn 72 B1 N Mauritania
Birnin Kebbi 72 E4 NW Nigeria Birnin Konni 72 E3 SW Nige Birobidzhan 118 H5 SE Russian Federation Birr 89 D4 C Ireland
Birsk 111 D6 W Russian Federation
Birżebbuga 112 B6 SE Malta
Bisbee 44 C4 Arizona, SW USA Biscay, Bay of 97 B4 bay France/Spain Bishah, Wadi 123 B5 dry watercourse C Saudi Arabia CSaudi Arabia Bishkek 125 H2 ● N Kyrgyzstan Bishop 49 C7 California, W USA Bishop Auckland 93 D2 N England, United Kingdom Biskra 70 E1 NE Algeria Biskupiec 105 F2 NE Poland Bislig 131 G5 S Philippines Bismarck 43 B2 state capital North Dakota, N USA Bismarck Archipelago 141 B1 island group NE Papua New Guinea
Bismarck Sea 141 B1 sea W Pacific Ocean
Bissau 72 A4 • W Guinea-Bissau Bistrita 109 R6 N Romania Bitam 76 A1 N Gabon Bitburg 101 A5 SW Germany Bitlis 121 G4 SE Turkey Bitola 107 D4 S Macedonia Bitonto 103 E6 SE Italy Bitterfeld 101 D4 E German Bitterroot Range 47 C2 ▲ Idaho/ Montana, NW USA Biu 72 G4 E Nigeria Biwa-ko 133 E6 ⊗ Honshu, SW Japan Bizerte 70 F1 N Tunisia Bjørnøya 143 D5 island N Norway Blackall 137 G4 Queensland, E Australia Blackburn 93 C4 NW England, United Kingdom
Black Drin 107 D3 ← Albania/Macedonia Blackfoot 47 D4 Idaho, NW USA
Black Forest 101 B7 ♠ SW Germany
Black Hills 43 A4 ♠ South Dakota/ Wyoming, N USA
Black Mountain 47 D5 ▲
Colorado, C USA
Black Mountains 93 C6 ▲ SE Wales, United Kingdom Blackpool 93 C4 NW England, United Kingdom Black Range 44 D3 ▲ New Mexico, SW USA
Black River 131 B2 & China/Vietnam Black Rock Desert 47 A4 desert Nevada, W USA
Black Sea 78 sea Asia/Europe
Black Sea Lowland 109 E6 depression SE Europe Blacksod Bay 89 A3 inlet W Ireland Black Volta 72 D4 😝 W Africa Blackwater 89 E6 SE Ireland Blackwater 89 D6 & S Ireland Blackwater 89 E2 & Ireland/Northern Ireland, United Kingdom Blaenavon 93 C7 SE Wales United Kingdom

Blagoevgrad 107 E3 W Bulgaria

United Kingdom

Blakeney Point 95 G1 headland

E England, United Kingdom

SE Spain

Blanche, Lake 137 F4
South Australia

Blanc, Mont 97 F5 ▲ France/Italy Blanco, Cape 49 A4 headland Oregon, NW USA Blandford Forum 95 D5 S England Blandford Forum 95 D5 S England, United Kingdom Blanes 99 H2 NE Spain Blankenberge 84 B5 NW Belgium Blankenheim 101 A5 W Germany Blanquilla, Isla 5717 island N Venezuela Blantyre 76 E4 S Malawi Blaricum 84 D4 C Netherlands Blenheim 139 C5 South Island, New Zealand Blida 70 D1 N Algeria Bloemfontein 76 D6 ● C South Africa Blois 97 C3 C France Bloody Foreland 89 C1 headland NW Ireland NW Ireland Bloomfield 44 C1 New Mexico, SW USA Bloomington 40 B6 Illinois, N USA Bloomington 40 D7 Indiana, N USA Bloomington 43 E3 Minnesota, N USA Bloomsburg 37 D5 Pennsylvania, NE USA Bloomsbury 137 G3 Queensland NE Australia

Bluefield 39 G2 West Virginia, NE USA Bluefields 55 E4 SE Nicaragua Blue Mountains 137 G6 ▲ New South Wales, SE Australia
Blue Mountains 49 C3 ▲ Oregon/ Washington, NW USA

Blue Nile 75 C3 😝 Ethio

Bluff 47 D6 Utah, W USA Blumenau 63 F8 S Brazil Blyth 93 D2 N England, United Kingdom Blyth 49 E9 California, W USA Blytheville 39 C3 Arkansas, C USA Bo 72 B5 S Sierra Leone Boaco 55 D4 S Nicaragua Boa Vista 63 E3 NW Brazil Bobaomby, Tanjona 76 G4 headland N Madagascar **Bobo-Dioulasso** 72 C4 SW Burkina Faso Boca Raton 39 G8 Florida, SE USA Bocay 55 D3 N Nicaragua Bocholt 101 A4 W Germany Bochum 101 A4 W Germany Bodavbo 118 F4 E Russian Federation Boden 83 D3 N Sweden Bodmin 95 B5 SW England United Kingdom Bodmin Moor 95 B5 moorland SW England, United Kingdom **Bodø** 83 C2 C Norway **Bodrum** 120 A4 SW Turkey Boende 76 C2 C Dem. Rep. Congr Bofin, Lough 89 D3 ⊗ N Ireland Bogalusa 39 C6 Louisiana, S USA Bogatynia 105 B4 SW Poland Boğazlıyan 121 D3 C Turkey Boggeragh Mountains 89 C6 Bognor Regis 95 F5 SE England,
United Kingdom
Bognor 131 C8 Java, C Indonesia A S Ireland Bogot 131 Co Java, C Indonesia Bogotá 63 B2 ● C Colombia Bo Hai 129 G3 gulf NE China Bohemia 105 B6 cultural region W Czech Republic

Bohemian Forest 101 D6 🚵 C Europe Bohol Sea 131 F5 sea S Philippines Bohoro Shan 129 B2 ANW China Boise 47 B3 state capital Idaho, NW USA Boise City 43 A7 Oklahoma, C USA Boizenburg 101 C3 N Germany Bojnūrd 123 E1 N Iran Boké 72 A4 W Guinea
Boknafjorden 83 A5 fjord S Norway Bol 72 G3 W Chad Bol 72 G3 W Chad Bolesławiec 105 C4 SW Poland Bolgatanga 72 D4 N Ghana Bolivia 65 A2 ◆ republic W South America Bollene 97 E6 SE France Bollnäs 83 C5 C Sweden Bollon 137 G4 Queensland, C Australia Bologna 103 C3 N Italy Bol'shevik, Ostrov 118 F2 island Severnaya Zemlya, N Russian Federation Bol'shezemel'skaya Tundra 111 E3 physical region NW Russian Federation Bol'shoy Lyakhovskiy, Ostrov 118 G2 island NE Russian Federation Bolton 93 C4 NW England, United Kingdom Bolu 121 C2 NW Turkey Bolungarvík 83 A1 NW Iceland Bolus Head 89 A6 headland SW Ireland Bolzano 103 C1 N Italy Boma 76 B3 W Dem. Rep. Congo Bombay see Mumbai Bomu 76 C1 😽 Central African Republic/Dem. Rep. Congo Bonaire 57 H7 island E Netherlands Antilles Bonanza 55 E3 NE Nicaragua Bonanza S ES NE Nicaragua
Bonaparte Archipelago 137 B2 island
group Western Australia
Bon, Cap 112 E4 headland N Tunisia
Bondo 76 C1 N Dem. Rep. Congo
Bondoukou 72 D5 E Côte d'Ivoire
Bone, Teluk 131 F7 bay Celebes, C Indonesia
Bongaigaon 127 G3 NE India
Bongo, Massif des 72 H4 🚵 NE Central
African Republic
Bongor 72 G4 SW Chad
Bonifacio 97 G6 Corsica, France
Bonifacio, Strait of 103 A5 strait C Indonesia E England, United Kingdom Blanca, Bahía 65 B6 bay E Argentina Blanca, Costa 99 F5 physical region C Mediterranean Sea

Bonn 101 A5 W Germany Boonville 37 D3 New York, NE USA Boosaaso 75 F3 N Somalia Boothia, Gulf of 33 H3 gulf Nunavut, NE Canada Boothia Peninsula 33 H3 penins Nunavut, NE Canada Boppard 101 B5 W Germany Boquete 55 F6 W Panama Boquillas 53 D2 NE Mexico Bor 107 D2 E Serbia Bor 75 C4 S Sudan Borah Peak 47 B3 ▲ Idaho, NW USA Borås 83 C6 S Sweden Bordeaux 97 B5 SW France Bordj Omar Driss 70 E3 E Algeria Bordon 95 F4 S England, United Kingdom

Børgefjelt 83 C3 ▲ C Norway

Borger 84 F2 NE Netherlands Borger 44 F2 Texas, SW USA Borgholm 83 C6 S Sweden Borisoglebsk 111 B6 W Russian Federation Borlänge 83 C5 C Sweden Borne 84 F4 E Netherlands Borneo 131 D7 island Brunei/Indonesia/Malaysia Bornholm 83 C7 island E Denmark Borovichi 111 A4 W Russian Federation Borrisokane 89 C5 S Ireland Bosanski Novi 107 B1 Republika Srpska NW Bosnia and Herzegovina oskovice 105 C6 SE Czech Republic Bosna 107 C2 A N Bosnia and Herzegovina Bosna I Hercegovina, Federacija 107 C2 republic Bosnia and Herzegovina Bosnia and Herzegovina 107 C2 ◆ republic SE Europe Boso-hanto 133 G6 penin. Bosporus 120 B2 strait NW Turkey Bossangoa 72 H5 C Central African Republic Bossembélé 72 H5 C Central African Republic

Bossier City 39 B5 Louisiana, S USA

Bosten Hu 129 C3 ⊗ NW China

Boston 93 F5 E England, United Kingdom Boston 37 F4 state capital Massachusetts, Boston Mountains 39 B3 Arkansas, CUSA Botany Bay 137 H6 inlet New South Wales, SE Australia Boteti 76 C5 ♣ N Botswana Boteti 76 C5 ♣7 N Botswana
Bothnia, Gulf of 83 D4 gulf N Baltic Sea
Botoşani 109 C5 NE Romania
Botrange 84 E7 ♣ E Belgium
Botswana 76 C5 ♠ republic S Africa
Bouar 72 G5 W Central African Republic
Bou Craa 70 B3 NW Western Sahara Bougainville Island 141 D2 island Bougainville Island 141 D2 Island NE Papua New Guine Bougaroun, Cap 112 D4 headland NE Algeria Bougouni 72 C4 SW Mali Boujdour 70 A3 W Western Sahara Boulder 47 F5 Colorado, C USA Boulder 47 D2 Montana NW USA Boulogne-sur-Mer 97 D1 N France Boûmdeïd 72 B3 S Mauritania Boundiali 72 C4 N Côte d'Ivoire Bountiful 47 D5 Utah, W USA Bourail 141 G6 C New Caledonia Bourbonnais 97 D4 cultural region C France Bourges 97 E4 E France Bourges 97 D4 C France Bourgogne see Burgundy Bourke 137 G5 New South Wales, SE Australia Bournemouth 95 E5 S England, United Kingdom

Boutilimit 72 A3 SW Mauritania

Bowen 137 G3 Queensland, NE Australia Bowland, Forest of 93 C3 forest N England, United Kingdom Bowling Green 39 E3 Kentucky, S USA Bowling Green 40 E5 Ohio, N USA Bowman 43 A2 North Dakota, N USA Boxmeer 84 E5 SE Netherlands Boyle 89 C3 C Ireland Boyne 89 E4 😂 E Ireland
Boysun 125 F3 S Uzbekistan
Bozeman 47 D3 Montana, NW USA Bozüvük 120 B3 NW Turkey Brač 107 B3 island S Croatia Bradford 93 D4 N England United Kingdom Bradford 37 B4 Pennsylvania, NE USA Brady 44 G4 Texas, SW USA
Brae 91 A6 NE Scotland, United Kingdom Braemar 91 E4 NE Scotland. United Kingdom

Braga 99 B2 NW Portugal Bragança 99 C2 NE Portugal Brahmanbaria 127 G3 E Bangladesh Brahmapur 127 F5 E India Brahmaputra 127 H3 😝 S Asia Brăila 109 D7 E Romania Braine-le-Comte 84 C7 SW Belgium Brainerd 43 E2 Minnesota, N USA Braintree 95 G3 SE England, United Kingdom

Brampton 35 D6 Ontario, S Canada
Brampton 93 C2 NW England, United Kingdom

Brandberg 76 B5 ▲ NW Namibia

Brandenburg 101 D3 NE Germany

Brandon 33 H7 Manitoba, S Canada

Brandon Mountain 89 46 A SW Ireland Braniewo 105 E2 NE Poland Brasília 63 G6 ● C Brazil Brasov 109 C6 C Romania Bratyov 105 Cb C Romanna
Bratislava 105 D7 ● W Slovakia
Bratsk 118 F5 C Russian Federation
Braunschweig 101 C4 N Germany
Brava, Costa 99 H2 coastal region NE Spain

Bravo, Río 53 D2 😝 Mexico/USA North America

Brawley 49 D9 California, W USA

Bray 89 E4 E Ireland

Brazil 63 C4 ◆ federal republic South America

Brazil Basin 14 undersea feature W Atlantic Ocean Brazilian Highlands 63 G6 ▲ E Brazil Brazos River 44 H4 ♣ Texas, SW USA Brazzaville 76 B2 ◆ S Congo Brechin 91 F4 E Scotland United Kingdom

Brecht 84 C5 N Belgiu Brecon 93 C6 E Wales, United Kingdom Brecon Beacons 93 B7 ▲ S Wales, United Kingdom Breda 84 D5 S Netherlands Bree 84 D6 NE Belgium
Bregalnica 107 E3 ♣ E Macedonia
Bremen 101 B3 NW Germany
Bremerhaven 101 B3 NW Germany Bremerton 49 B2 Washington, NW USA Brenham 44 H4 Texas, SW USA Brenner Pass 101 C8 pass Austria/Italy Brentwood 95 G3 E England, United Kingdom

Brescia 103 C2 N Italy

Bressanone 103 C1 N Italy Bressay 91 B6 island NE Scotland, United Kingdom

Brest 109 B3 SW Belarus Brest 97 A2 NW France Bretagne see Brittany Brewton 39 D6 Alabama, S USA Bria 72 H5 C Central African Republic Briançon 97 F5 SE France Bride 93 B3 N Isle of Man Bridgend 93 B7 S Wales, United Kingdom Bridgeport 49 C6 California, W USA
Bridgeport 37 E5 Connecticut, NE USA
Bridgetown 57 K6 • SW Barbados Bridgetown 89 E6 SE Ireland Bridgwater 95 D4 SW England, United Kingdom

Bridgwater Bay 95 C4 bay SW England, United Kingdom

Bridlington 93 F3 E England,
United Kingdom

Bridlington Bay 93 F3 bay E England, United Kingdom

Bridport 95 D5 S England,
United Kingdom

Brig 101 B8 SW Switzerland Brigg 93 E4 N England, United Kingdom Brigham City 47 D4 Utah, W USA Brighton 95 F5 SE England, United Kingdom

Brighton 47 F5 Colorado, C USA Brindisi 103 F6 SE Italy Brisbane 137 H4 state capital Queensland, E Australia

Bristol 95 D4 SW England, United Kingdom

Bristol 37 E4 Connecticut, NE USA

Bristol 39 F3 Virginia, NE USA North America Bristol Bay 50 C2 bay Alaska, USA Bristol Channel 95 C4 inlet England/ Wales, United Kingdom British Columbia 33 E5 ◆ province SW Canada

British Indian Ocean Territory 27 UK ♦ C Indian Ocean

British Isles 78 island group NW Europe
British Virgin Islands 57 14 UK
♦ E West Indies Brittany 97 B2 cultural region NW France Europe
Brive-la-Gaillarde 97 C5 C France
Brixan 95 C5 SW England, United Kingdom

Brno 105 C6 SE Czech Republic

Broad Bay 91 C2 bay NW Scotland, United Kingdom

Broadford 91 C4 N Scotland,
United Kingdom

Broad Haven 89 B2 inlet NW Ireland Broad Law 91 E6 ▲ S Scotland, United Kingdom Broadstairs 95 H4 SE England, United Kingdom

Broads, The 95 H2 wetland E England, United Kingdom

Brockton 37 F4 Massachusetts, NE USA Brodeur Peninsula 33 H3 peninsula Baffin Island, Nunavut, NE Canada Brodick 91 C6 W Scotland, United Kingdom Brodnica 105 E2 C Poland Broek-in-Waterland 84 D3 C Netherlands Broken Hill 137 F5 New South Wales, SE Australia

Bromley 95 F4 SE England, United Kingdom

Bromsgrove 93 D6 W England,
United Kingdom

Brookhaven 39 C5 Mississippi, S USA Brookings 43 D3 South Dakota, N USA Brooks Range 50 E2 ▲ Alaska, USA

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NW Pacific Ocean

Bonin Trench 15 undersea feature

Brandon 89 A6 SW Ireland Brandon Bay 89 A6 bay SW Ireland

BROOKTON **Brookton** 137 B5 Western Australia **Broome** 137 C2 Western Australia **Broomfield** 47 F5 Colorado, C USA Brora 91 D3 N Scotland, United Kingdom Brora 91 D2 A N Scotland, United Kingdom

Brough 93 D3 NW England. United Kingdom

Brownfield 44 F3 Texas, SW USA Brownsville 44 H6 Texas, SW USA Brownwood 44 G4 Tevas SW USA Bruges 84 B6 NW Belgium Brugge see Bruges Brummen 84 E4 E Netherlands Brunei 131 D5 ◆ monarchy SE Asia Brunner, Lake 139 C6 South Island, New Zealand Brunswick 39 G6 Georgia, SE USA Brunswick 37 G3 Maine, NE USA Brus Laguna 55 E2 E Honduras Brussel see Brussels Brussels 84 C6

C Belgiun Bruxelles see Brussels
Bryan 44 H4 Texas, SW USA Bryansk 111 A6 W Russian Federation Bryansk 111 A6 W Russian Feder Bryn Du 93 B6 hill E Wales, United Kingdom Brzeg 105 D4 S Poland Buala 141 E2 E Solomon Islands Bucaramanga 63 C2 N Colombia Buchanan 72 B5 SW Liberia Buchanan, Lake 44 G4 Texas Buchan Ness 91 F3 headland NE Scotland, United Kingdom Bucharest 109 C7 ● S Romania Buckie 91 E3 NE Scotland, United Kingdom Bucuresti see Bucharest Bucyrus 40 E6 Ohio, N USA Budapest 105 E7 ● N Hungary Budaun 127 E3 N India Bude 95 B5 SW England, United Kingdom Bude Bay 95 B5 bay SW England, United Kingdom Buenaventura 63 B3 W Colombia Buena Vista 65 B2 C Bolivia Buenos Aires 65 C5 ◆ E Argentina Buenos Aires 55 F6 SE Costa Rica Buenos Aires, Lago 65 A8 ⊗
Argentina/Chile Buffalo 37 B3 New York, NE USA Buffalo 43 A3 South Dakota, N USA Buffalo 44 H4 Texas, SW USA Buffalo Narrows 33 G6 Saskatchewan, C Canada Bug 109 B3 🗗 E Europe Buguruslan 111 D6 W Russian Federation Builth Wells 93 C6 E Wales, United Kingdom Bujalance 99 D5 S Spain Bujanovac 107 D3 SE Serbia Bujumbura 75 B6 ● W Burundi Buka Island 141 D2 island NE Papua New Guinea
Bukavu 76 D2 E Dem. Rep. Congo
Bukoba 75 C5 NW Tanzania
Bülach 101 B7 NW Switzerland Bulawayo 76 D5 SW Zimbabwe Bulgaria 107 E3 ◆ republic SE Europe Bullhead City 44 A2 Arizona, SW USA Bull Shoals Lake 43 F7 🖾 Arkansas/ Missouri, C USA Bulukumba 131 E7 Celebes, C Indonesia Bumba 76 C1 N Dem. Rep. Congo Bunbury 137 B6 Western Australia Bunclody 89 E5 SE Ireland Buncrana 89 D1 NW Ireland Bundaberg 137 H4 Queensland, E Australia Bungo-suido 133 D7 strait SW Japan Bunmahon 89 D6 S Ireland Bunratty 89 C5 W Ireland Bünvan 121 D3 C Turkev Buon Ma Thuot 131 C4 S Vietnam Buraydah 123 C4 N Saudi Arabia Burco 75 F3 NW Somalia Burdur 120 B4 SW Turkey Burdur Gölü 120 B4 salt lake SW Turkey Bure 75 D3 N Ethiopia Bure 95 H1 A E England, United Kingdom Burgas 107 G3 E Bulgaria Burgaski Zaliv 120 A1 gulf E Bulgaria Burgess Hall 95 F4 SE England,
United Kingdom
Burgos 90 D2 N Spain
Burgundy 97 F4 region E France
Burhan Budai Shan 129 D4 & C China Burjassot 99 F4 E Spain Burkburnett 44 G2 Texas, SW USA Burketown 137 F2 Queensland NE Australia Burkina see Burkina Faso Burkina Faso 72 C4 ◆ republic Burley 47 C4 Idaho, NW USA Burlington 47 G5 Colorado, C USA Burlington 43 F5 Iowa, C USA Burlington 37 E3 Vermont, NE USA Burma see Myanmar Burnham-on-Crouch 95 G3 SE England,

Burnside 33 G4 A Nunavut. NW Canada

Burns Junction 49 C4 Oregon, NW USA Burnsville 43 E3 Minnesota N USA Burren 89 B5 physical region W Ireland Burriana 99 F3 E Spain Burton upon Trent 93 D5 C England, United Kingdom Burundi 75 B6 ◆ republic C Africa Buru, Pulau 131 F7 island E Indonesia Bury 93 D4 NW England, United Kingdom Bury St Edmunds 95 G2 E England, United Kingdom **Bushmills** 89 E1 N Northern Ireland, United Kingdom **Busselton** 137 B6 Western Australia Buta 76 D1 N Dem. Rep. Congo Bute, Island of 91 C6 island SW Scotland, Rutler 37 R5 Pennsylvania NE USA Buton, Pulau 131 F7 island C Indonesia Butte 47 C2 Montana, NW USA Button Islands 35 E1 island group Nunavut, NE Canada Butuan 131 F5 S Philippines Buulobarde 75 F4 C Somalia Buur Gaabo 75 E5 S Somalia Buxoro 125 E3 C Uzbekistan United Kingdom **Buynaksk** 111 B9 SW Russian Federation Büyükmenderes Nehri 120 A4 SW Turkey

Buzău 109 C7 SE Romania

Buzuluk 111 C6 W Russian Federation Bydgoszcz 105 D3 C Poland Byelaruskaya Hrada 109 C3 ridge N Belarus Byerezino 109 D2 😂 C Belarus

Bursa 120 B3 NW Turkey

United Kingdom

Buttevant 89 C6 S Ireland

Buxton 93 D5 C England,

Bytča 105 D6 N Slovakia SW New Zealand

Campbell Plateau 15 undersea feature Bytów 105 D2 N Poland SW Pacific Ocean Campbell River 33 E7 Vancouver Island, British Columbia, SW Canada Campbeltown 91 C6 W Scotland, United Kingdom

Campeche 53 H4 SE Mexico Campeche, Bay of 53 G4 bay E Mexico Câm Pha 131 C2 N Vietnam Campina Grande 63 I5 E Brazil Campinas 63 G7 S Brazil Caazapá 65 C4 S Paraguay Caballo Reservoir 44 D3 ⊠ New Mexico, SW USA Cabañaquinta 99 C1 N Spain Cabanatuan 131 F3 N Philippines Campobasso 103 D5 C Italy Campo de Criptana 99 D4 C Spain Campo Grande 63 F7 SW Brazil Cabinda 76 B2 NW Angola Cabinda 76 B3 province NW Angola Cabora Bassa, Lake 76 E4 Campos 63 H7 SE Brazil NW Mozambique Caborca 53 B2 NW Mexico Camp Verde 44 B2 Arizona, SW USA Cam Ranh 131 D4 S Vietnam
Canada 28 ◆ commonwealth republic Cabo Rojo 51 Puerto Rico Cabot Strait 35 G4 strait E Canada N North America Cabras Island 51 island W Guam Canada Basin 143 B3 undersea feature Cabrera, Illa de 99 G4 island Arctic Ocean Canadian 44 F2 Texas, SW USA Balearic Islands, Spain
Cáceres 99 C4 W Spain
Cachimbo, Serra do 63 E4 C Brazil Canadian River 44 E2 SW USA
Canadian Shield 35 B3 physical region Caconda 76 B4 C Angola Čadca 105 D6 N Slovakia Canakkale 120 A2 W Turkey Cananea 53 B2 NW Mexico
Canarreos, Archipiélago de los 57 B3 Cader Idris 93 B5 ▲ NW Wales United Kingdom Cadillac 40 D4 Michigan, N USA Cadiz 131 F4 C Philippines island group W Cuba

Canary Islands 70 A2 island group Spain. Cádiz 99 C6 SW Spain Cádiz, Golfo de see Cadiz, Gulf of Cadiz, Gulf of 99 B6 gulf Portugal/Spain NE Atlantic Ocean Cañas 55 E5 NW Costa Rica Canaveral, Cape 39 G7 headland Florida, Caen 97 C2 N France Caernarfon 93 R5 NW Wales Canavieiras 63 H6 E Brazil United Kingdom

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Caerphilly 93 C7 S Wales,
United Kingdom
Caersws 93 B6 C Wales, United Kingdom Cangzhou 129 G3 E China Caniapiscau 35 E2 🖨 Québec, E Canada Caniapiscau, Réservoir de 35 E3 Cafayate 65 B4 N Argentina Cagayan de Oro 131 F5 S Philippines ☑ Ouébec, C Canada Canik Dağları 121 E2 A N Turkey Cagliari 103 A6 Sardinia, Italy Çankırı 121 C2 N Turkey Canna 91 B4 island NW Scotland, Caguas 57 14 E Puerto Rico
Caha Mountains 89 B7 🚵 SW Ireland
Caher 89 D6 S Ireland United Kingdom Cannanore 127 D7 SW India (see Caherciveen 89 A6 SW Ireland also Kannur)

Cannes 97 F6 SE France Cahore Point 89 E5 headland SE Ireland Cahors 97 C6 S France Cahul 109 D6 S Moldova Cannock 93 D5 C England, United Kingdom

Canoas 63 F9 S Brazil Caicos Passage 57 F3 strait Bahamas/ Turks and Caicos Islands Cairngorm Mountains 91 E4 Canoas 63 F9 S Brazil Canon City 47 F6 Colorado, C USA Cantabria 99 D1 cultural region N Spain Cantábrica, Cordillera 99 C1 📤 N Spain A C Scotland, United Kingdom Cairns 137 G2 Queensland, NE Australia Cairo 70 12 ● N Egypt Cajamarca 63 B5 NW Peru Canterbury 95 H4 SE England, United Kingdom Canterbury Bight 139 C6 bight Calabar 72 F5 S Nigeria South Island, New Zealand Calahorra 99 E2 N Spain Calais 97 D1 N France Canterbury Plains 139 C6 plain South Island, New Zealand Can Tho 131 C4 S Vietnam Calais 37 H2 Maine, NE USA Calama 65 A3 N Chile Călărași 109 C7 SE Romani Calatayud 99 E3 NE Spain Canton 39 C5 Mississippi, S USA Canton 40 F6 Ohio, N USA Canton see Guangzhou Canyon 44 F2 Texas, SW USA Calbayog 131 F4 C Philippines
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Caldas da Rainha 99 A4 W Portugal Canyon 47 D Wyoming, C USA
Cape Barren Island 137 G7 island
Furneaux Group, Tasmania, SE Australia
Cape Breton Island 35 G5 island
Nova Scotia, SE Canada
Cape Charles 39 I2 Virginia, NE USA Caldera 65 A4 N Chile Caldwell 47 B3 Idaho, NW USA Caledonia 55 C1 N Belize Caleta Olivia 65 B8 SE Argentina Calf of Man 93 A4 island SW Isle of Man Calgary 33 G7 Alberta, SW Canada Cali 63 B3 W Colombia Cape Coast 72 D5 S Ghana Cape Girardeau 43 G7 Missouri, C USA Capelle aan den IJssel 84 C4 SW Netherlands Calicut 127 D7 SW India Cape May 37 D6 New Jersey, NE USA Cape Town 76 C7 ◆ SW South Africa Cape Verde 67 ◆ republic (see also Kozhikode)

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Callan 89 D5 S Ireland Callander 91 D5 C Scotland United Kingdom

Callao 63 B5 W Peru Callos de Segura 99 F5 E Spain Calne 95 E4 S England, United Kingdom Caloundra 137 H4 Queensland, E Australia Caltanissetta 103 D8 cw Italy Caluula 75 G3 NE Somalia Cam 95 F2 🗗 E England, United Kingdom
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Camacupa 76 B4 C Angola
Camagüey 57 D3 C Cuba Camagüey, Archipiélago de 57 D3 island group C Cuba Camargue 97 E6 physical region Ca Mau 131 C5 S Vietnam Cambodia 131 C4 ◆ republic SE Asia Cambrai 97 D1 N France Cambrian Mountains 93 B6 ▲ C Wales, United Kingdom

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Camorta 127 H6 island SE India
Campamento 55 D3 C Honduras Campbell, Cape 139 D5 headland

Cape York Peninsula 137 F1 peninsula Queensland, N Australia Cap-Haïtien 57 F4 N Haiti Capira 55 H6 C Panama Capitán Arturo Prat 142 A3 Chilean research station South Shetland Islands, Antarctica Capitán Pablo Lagerenza 65 C3 N Paraguay Capri 103 D6 S Italy Caprivi Strip 76 C4 cultural region NE Namibia Captain Cook 51 D3 Hawaii, USA, C Pacific Ocean Caquetá, Río 63 B3 😂 Brazil/Colombia Caracal 109 B7 S Roma Caracari 109 B7 S Romania Caracaraí 63 E3 W Brazil Caracas 63 D1 ● N Venezuela Caratasca, Laguna de 55 E2 lagoon NE Honduras Carbondale 40 B8 Illinois, N USA Carbonia 103 A6 W Italy Carcassonne 97 D6 S France Cárdenas 57 C2 W Cuba Cardiff 93 C7 National region capital, S Wales, United Kingdom Cardigan 93 A6 SW Wales United Kingdom
Cardigan Bay 93 A6 bay W Wales, United Kingdom Carey 47 C4 Idaho, NW USA Carey, Lake 137 C5 ⊗ Western Australia Caribbean Sea 57 F6 sea W Atlantic Ocean Carlisle 93 C2 NW England United Kingdom

Carlow 89 E5 SE Ireland Carloway 91 B2 NW Scotland. United Kingdom
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Carna 89 B4 W Ireland
Carnarvon 137 A4 Western Australia Carndonagh 89 D1 NW Ireland Carnedd Llywelyn 93 B5 ▲ NW Wales, United Kingdom Carnegie, Lake 137 C4 salt lake Western Australia

Carn Eige 91 C4

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Car Nicobar 127 H5 island SE India Carnlough 89 F2 E Northern Ireland, United Kingdom Carnoustie 91 E5 E Scotland, United Kingdom Carolina 63 G4 E Brazil Carolina 51 E Puerto Rico Carpathian Mountains 105 F6 ▲ E Europe
Carpentaria, Gulf of 137 E1 gulf
N Australia
Carpi 103 C3 N Italy Carrara 103 B3 C Italy
Carrauntoohil 89 A6 ▲ SW Ireland
Carrickfergus 89 F2 NE Northern Ireland, United Kingdom Carrickmacross 89 E3 N Ireland Carrick-on-Shannon 89 D3 NW Ireland Carrizo Springs 44 G5 Texas, SW USA Carrizozo 44 D3 New Mexico, SW USA Carrowmore Lake 89 B3 ⊗ NW Ireland Carson City 47 A5 state capital Nevada, Carson Sink 47 A5 salt flat Nevada, WIISA Cartagena 63 B1 NW Colombia Cartagena 99 F5 SE Spain Cartago 55 E6 C Costa Rica Carthage 43 E7 Missouri, C USA Carthage 44 I3 Texas, SW USA Cartwright 35 G3 Newfoundland and Labrador, E Canada Caruthersville 43 G7 Missouri, C USA Casablanca 70 C1 NW Morocco Casa Grande 44 B3 Arizona, SW USA Cascade Range 49 B3 A Oregon/ Washington, NW USA Cascais 99 A4 C Portugal Caserta 103 D5 S Italy Casey 142 E5 Australian research station Antarctica Cashel 89 D5 S Ireland Čáslav 105 C5 C Czech Republic Casper 47 E4 Wyoming, C USA Caspian Depression 111 B8 depression Kazakhstan/Russian Federation Caspian Sea 114 inland sea Asia/Europe Casteggio 103 B2 N Italy Castellón de la Plana 99 F3 E Spain Castelnaudary 97 C6 S France Castelnaudary 97 C6 S France Castelo Branco 99 B4 C Portugal Castelsarrasin 97 C6 S France Castelvetrano 103 C8 Sicily, Italy Castilla-La Mancha 99 E4 cultural region NE Spain Europe Castilla-León 99 C2 cultural region NW Spain Castle Acre 95 G1 E England, United Kingdom
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Castlebay 91 A4 NW Scotland,

Castlecomer 89 D5 SE Ireland Castlecove 89 A6 SW Ireland Castledawson 89 E2 C Northern Ireland, United Kingdom

Castlederg 89 D2 W Northern Ireland,
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Castle Douglas 91 D7 S Scotland, NE USA United Kingdom

Castleford 93 E4 N England,
United Kingdom

Castleisland 89 B6 SW Ireland N France Castlemartyr 89 C6 S Ireland Castletown 93 A4 SE Isle of Man Castletown Bearhaven 89 B7 SW Ireland Castletown Bearnaven 89 B7 3W Castletownroche 89 C6 S Ireland Castricum 84 C3 W Netherlands Castries 57 K6 ● N Saint Lucia Castro 65 A7 W Chile Castrovillari 103 E7 SW Italy Castuera 99 C4 W Spain Catacamas 55 D3 C Honduras Catalonia 99 G2 cultural region N Spain Europe

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Catterick 93 D3 N England, United Kin Caucasus 121 G1 A Georgia/ Russian Federation Cavally 72 C5 & Côte d'Ivoire/ Liberia Africa Cavan 89 D3 N Ireland Caviana de Fora, Ilha 63 G3 island N Brazil Caxito 76 B3 NW Angola Cayenne 63 F2 O NE French Guiana Caves 57 E4 SW Haiti Cayman Brac 57 C4 island É Cayman Islands Cayman Islands 56 B4 UK ♦ W West Indies
Cay Sal 57 C2 islet SW Bahamas
Cazorla 99 E5 S Spain Ceará 63 H4 state C Brazil CUSA Cébaco, Isla 55 G7 island SW Panama Cebu 131 F4 C Philippines Cecina 103 B4 C Itali Cedar City 47 C6 Utah, W USA Cedar Falls 43 F4 Iowa, C USA Cedar Rapids 43 F5 Iowa, C USA Cedar River 40 A4 A Iowa/Minnesota. SE USA Cedros, Isla 53 A3 island W Mexico Ceduna 137 E5 South Australia Cefalù 103 D8 Sicily, Italy Celbridge 89 E4 E Ireland Celbridge 89.E4 E Ireiano Celebes 131 E7 island C Indonesia Celebes Sea 131 E6 sea Indonesia/Philippines Celje 101 E8 C Slovenia Celldömölk 105 D8 W Hungary Celle 101 C3 N Germany Celtic Sea 87 B8 sea SW British Isles Cenderawasih, Teluk 131 H7 bay SE USA E Indonesia Cenon 97 B5 SW France
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Central Makran Range 127 B3

W Pakistan
Central Pacific Basin 15 undersea feature C Pacific Ocean

Central Range 141 A2 ▲ NW Papua Central Russian Upland 111 A6

W Russian Federation
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Challans 97 B4 NW France Châlons-en-Champagne 97 E2 NE France Chalon-sur-Saône 97 E4 C France Chaman 127 B2 SW Pakistar Chambersburg 37 C5 Pennsylvania, Chambéry 97 E5 E France Champagne 97 E2 cultural region N France
Champaign 40 C6 Illinois, N USA
Champasak 131 C3 S Laos
Champerico 55 A3 SW Guatemala
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W Russian Federation
Chard 95 D5 SW England, United Kingdom
Charente 97 C5 cultural region W France
Charente 97 C5 S W France Chari 72 H4 A Central African Republic/Chad Charikar 125 F5 NE Afghanistan Chariton River 43 F6 A Missouri, Charleroi 84 C7 S Belgium Charlesbourg 35 E5 Québec, SE Canada Charles Island 35 D1 island Nunavut, NE Canada
Charleston 40 C7 Illinois, N USA
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▲ Kyrgyzstan/Uzbekistan
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Chattanooga 39 D4 Tennessee, S USA
Chatyr-Tash 125 H3 C Kyrgyzstan
Chaument 97 F8 N France Chaumont 97 E3 N France Chaves 99 B2 N Portugal Chaykovskiy 111 D6 NW Russian Federation Cheb 105 A5 W Czech Republic Cheboksary 111 C6 W Russian Federation Cheboygan 40 D3 Michigan, N USA Chech, Erg 72 C1 desert Algeria/Mali Cheduba Island 131 A3 island W Myanmar (Burma)
Cheju-do 133 B8 island S South Korea
Cheju Strait 133 B7 strait S South Korea Chełm 105 G4 SE Poland Chełmno 105 D2 C Poland Chelmsford 95 G3 E England, United Kingdom Cheltenham 95 D3 C England, United Kingdom Chelyabinsk 118 C4 C Russian Federation CRUSSIAN FEGERATION

Chemnitz 101 D5 E Germany

Chemult 49 B4 Oregon, NW USA

Chengde 129 G3 E China Chengdu 129 E4 C China Chennai 127 E6 S India Chenzhou 129 F5 S China Chepstow 93 C7 SE Wales, Chakhansur 125 D6 SW Afghanistan Chalatenango 55 B3 N El Salvador Chalki 107 G6 island SE Greece United Kingdom
Cher 97 D4 😝 C France Cherbourg 97 B1 N France Cherepovets 111 B4 NW Russian Federation Chalkidiki 107 E4 peninsula NE Greece ▲ Mountain

River

Lake

Reservoir

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United Kingdom

Burnie 137 F7 Tasmania, SE Australia

Burnley 93 D4 NW England, United Kingdom Burns 49 C4 Oregon, NW USA

California 49 C8 ◆ state W USA

California, Gulf of 53 B2 gulf W Mexico

É Atlantic Ocean

United Kingdom

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Chalkida 107 E5 E Greece

Chergui, Chott ech 112 B5 salt lake NW Algeria Cherkasy 109 E4 C Ukraine Cherkessk 111 A8 SW Russian Federation Chernihiv 109 E3 NE Ukraine Chernivtsi 109 C5 W Ukraine Cherry Hill 37 D5 New Jersey, NE USA Cherry Hill 37 D5 New Jersey, NE USA
Cherskiy 118 H2 NE Russian Federation
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ANE Russian Federation
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Chichester 95 F5 SE England, United Kingdom United Kingdom Chickasha 43 C8 Oklahoma, C USA Chiclayo 63 B5 NW Peru Chico 49 B6 California, W USA Chico, Río 65 B7 😂 SE Argentina Chico, Río 65 A8 😂 S Argentina Chicoutimi 35 E4 Québec, SE Canada Chieti 103 D5 C Italy Chifeng 129 G2 N China Chihuahua 53 D2 NW Mexico Childress 44 F2 Texas, SW USA Chile 65 A4 ◆ republic

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Chimoio 76 E5 C Mozambique China 129 C3 ◆ republic E Asia
Chinandega 55 C4 NW Nicaragua
Chin-do 133 B7 island SW South Korea
Chindwinn 131 A1 ♣7 N Burma (Myanmar)

Chingola 76 D4 C Zambia

Chinguețți 72 B2 C Mauritania Chin Hills 131 A2 W Burma (Myanmar)
Chinle 44 C1 Arizona, SW USA
Chioggia 103 D2 NE Italy Chíos 107 F5 E Greece Chíos 107 F5 island E Greece Chipata 76 E4 E Zambia Chippenham 95 D4 S England,
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Chippewa River 40 A3 & Wisconsin, NUSA N USA Chiputneticook Lakes 37 H2 lakes Canada/USA Chiquimula 55 B3 SE Guatemala Chirala 127 E6 E India Chirchiq 125 F2 E Uzbekistan Chiriqui Gulf 55 F7 gulf SW Panama Chiriqui, Laguna de 55 F6 lagoon NW Panama Chirripó Grande, Cerro 55 F6 ▲ SE Costa Rica Chisec 55 B2 C Guatemala
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Clearlake 49 B6 California, W USA

Clearwater River 47 B2 😂 Idaho

NW USA Cleburne 44 G3 Texas, SW USA

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Clitheroe 93 C4 NW England United Kingdom Cloghan 89 D4 C Ireland Cloncurry 137 F3 Queensland, C Australia Clondalkin 89 E4 E Ireland Clones 89 D3 N Ireland Clonmel 89 D6 S Ireland Cloonboo 89 C4 W Ireland Cloppenburg 101 B3 NW Germany Cloquet 43 F2 Minnesota, N USA Cloud Peak 47 E3 ▲ Wyoming, CUSA C USA Clovelly 95 B4 SW England, United Kingdom Clovis 44 E2 New Mexico, SW USA Cluj-Napoca 109 B6 NW Romai Clutha 139 B7 😽 South Island, New Zealand Clvde 91 E6 😽 W Scotland. United Kingdom

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Colwyn Bay 93 B4 N Wales, United Kingdom Comacchio 103 C3 N Italy Comalcalco 53 G5 SE Mexico Comarapa 65 B2 C Bolivia Comayagua 55 C3 W Honduras Comeragh Mountains 89 D6 🚵 S Ireland Comilla 127 G4 E Bangladesh Comino 112 B6 island C Malta Comitán 53 H5 SE Mexico Como 103 B2 N Italy Comodoro Rivadavia 65 B7 SE Argentina

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Coral Harbour 33 I4 Southampton Island, Nunavut, NE Canada Coral Sea 141 C4 sea SW Pacific Ocean Coral Sea Islands 141 B4 Australian

♦ SW Pacific Ocean

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Cromer 95 H1 E England,
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Danube 78 A C Europe

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Drachten 84 E2 N Netherlands

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Ejea de los Caballeros 99 E2 NE Spain Elat 123 G7 S Israel El'Atrun 75 B2 NW Sudan Elâzīğ 121 F3 E Turkey Elba 103 B4 island Archipelago Toscano, C Italy

Elbe 101 C3 ♣ Czech Republic/Germany

Elbert, Mount 47 E5 ▲ Colorado, C USA Elblag 105 E2 NE Poland El'brus 111 A8 ▲ SW Russian Federation El Burgo de Osma 99 E2 C Spain Elburz Mountains 123 D2 AN Iran El Cajon 49 D9 California, W USA El Calafate 65 A8 S Argentina El Campo 44 H5 Texas, SW USA El Centro 49 D9 California W USA Elche 99 F5 E Spain
El Chichónal, Volcán 53 G5 & SE Mexico Elda 99 F4 E Spain Eldorado 65 D4 NE Argentina El Dorado 53 C4 C Mexico El Dorado 39 B4 Arkansas, C USA El Dorado 43 D7 Kansas, C USA Eldoret 75 D5 W Kenya Elektrostal' 111 B5 W Russian Federation Elemi Triangle 75 C4 disputed region Kenya/Sudan
Elephant Butte Reservoir 44 D3 ⊠ New Mexico, SW USA Eleuthera Island 57 D1 island N Bahamas El Fasher 75 B3 W Sudan El Geneina 75 A3 W Sudan Elgin 91 E3 NE Scotland, United Kingdom Elgin 40 C5 Illinois, N USA El Golea 70 D2 C Algeria El Hank 72 C1 cliff N Mauritania Elida 44 E3 New Mexico, SW USA Elista 111 B8 SW Russian Federation Elizabeth 137 E6 South Australia Elizabeth City 39 I3 North Carolina, SE USA Elizabethtown 39 E2 Kentucky, S USA Ełk 105 F2 NE Poland Elk City 43 C8 Oklahoma, C USA Elkhart 40 D5 Indiana, N USA Elk River 43 E3 Minnesota, N USA Ellef Ringnes Island 33 G2 island Nunavut, N Canada Ellensburg 49 C2 Washington, NW USA Ellesmere Island 33 H1 island Queen Elizabeth Islands, Nunavut, N Canada Ellesmere, Lake 139 C6 ⊗ South Island, New Zealand Ellesmere Port 93 C4 C England, United Kingdom

Elliston 137 E5 South Australia Ellon 91 F3 NE Scotland, United Kingdom Ellsworth 37 G2 Maine, NE USA Ellsworth Land 142 A5 physical region Antarctica El Mahbas 70 B3 SW Western Sahara Elmira 37 C4 New York, NE USA El Mreyyé 72 C2 desert E Mauritania Elmshorn 101 C2 N Germany El Muglad 75 B3 C Sudan El Obeid 75 C3 C Sudan El Oued 70 E2 NE Algeria Floy 44 B3 Arizona SW USA El Paso 44 D4 Texas, SW USA El Porvenir 55 H6 N Panama El Progreso 55 C3 NW Honduras El Puerto de Santa María 99 C6 SW Spain El Rama 55 E4 SE Nicaragua El Real 55 I6 SE Panama El Reno 43 C8 Oklahoma, C USA El Salvador 55 B4 ◆ republic Central America El Sáuz 53 C2 N Mexico Elst 84 E4 E Netherlands El Sueco 53 C2 N Mexico El Tigre 63 D2 Colombia El vas 99 B4 C Portugal
El Vendrell 99 G3 NE Spain
Elwell, Lake 47 D1 ⊠ Montana, NW USA Elx see Elche
Ely 95 G2 E England, United Kingdom
Ely 47 C5 Nevada, W USA Ely 93 C7 😂 SE Wales, United Kingdom El Yunque 51 ♠ E Puerto Rico Emba 118 B5 W Kazakhstan Emden 101 B3 NW Germany Emerald 137 G4 Queensland, E Australia Emeti 141 A2 SW Papua New Guinea

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Denison 43 D5 Iowa, C USA

Denison 44 H2 Texas, SW USA Denizli 120 B4 SW Turkey

Dependent territory

Dresden 101 D5 E Germany Driffield 93 E3 E England,

Drina 107 D2 🕏 Bosnia and

United Kingdom

Herzegovina/Serbia

O Dependent territory capital

SE Canada Edolo 103 C2 N Italy Edremit 120 A3 NW Turkey

SW USA

▲ Mountain

River

Lake

Reservoir

Edward, Lake 76 D2 @ Dem. Rep.

Congo/Uganda Edwards Plateau 44 F4 plain Texas,

Edzo 33 F5 Northwest Territories.

Emi Koussi 72 H2 ▲ N Chad Emmeloord 84 E3 N Netherlands Emmen 84 F3 NE Netherlands Emmendingen 101 B7 SW Germany Emory Peak 44 E5 ▲ Texas, SW USA Empalme 53 B3 NW Mexico Emperor Seamounts 15 undersea feature NW Pacific Ocean Emporia 43 D6 Kansas, C USA Empty Quarter 123 D6 desert SW Asia Ems 101 B3 & NW Germany Enard Bay 91 C2 bay NW Scotland, United Kingdom
Encarnación 65 C4 S Paraguay
Encinitas 49 D9 California, W USA Encs 105 F6 NE Hungary Endeavour Strait 137 F1 strait Queensland, NE Australia Enderby Land 142 D3 physical region Antarctica Enghien 84 C7 SW Belgium England 87 E6 ♦ national region United Kingdom
English Channel 87 E8 channel NW Europe Enguri 121 G1 A NW Georgia Enid 43 C7 Oklahoma, C USA Ennedi 72 H2 plateau E Chad Ennis 89 C5 W Ireland Ennis 44 H3 Texas, SW USA Enniscorthy 89 E5 SE Ireland Enniskillen 89 D3 SW Northern Ireland, United Kingdom
Ennistimon 89 B5 W Ireland Enns 101 E7 😂 C Austria
Enschede 84 F4 E Netherlands
Ensenada 53 A1 NW Mexico Entebbe 75 C5 S Uganda Entroncamento 99 B4 C Portugal Enugu 72 F5 S Nigeria Epéna 76 B1 NE Congo Ephrata 37 D5 Pennsylvania, NE USA Epi 141 H5 island C Vanuatu Épinal 97 F3 NE France Epping 95 G3 SE England,
United Kingdom
Equatorial Guinea 72 F6 ◆ republic C Africa C Africa
Erciş 121 G3 E Turkey
Erdenet 129 E2 N Mongolia
Erdi 72 H2 plateau NE Chad
Erebus, Mount 142 C6 ≩ Ross Island, Antarctica
Ereğli 121 D4 S Turkey Erenhot 129 F2 NE China Erfurt 101 C5 C German Ergene Çayi 120 A2 🔊 NW Turkey Ergun He see Argun Eriboll, Loch 91 D2 inlet NW Scotland, United Kingdom

Ericht, Loch 91 D4 ⊗ C Scotland, United Kingdom Erie 37 B4 Pennsylvania, NE USA Erie, Lake 40 F5 ⊗ Canada/USA Eriskay 91 A4 island NW Scotland, United Kingdom Eritrea 75 D2 ◆ transitional government E Africa Erlangen 101 C6 S Germany Ermelo 84 E3 C Netherlands Ermióni 107 E6 S Greece Ernakulam 127 D7 SW India Erne 89 D3 & Ireland/Northern Ireland. United Kingdom
Erode 127 D7 SE India Erquelinnes 84 C7 S Belgium
Er-Rachidia 70 C2 E Morocco
Er Rahad 75 C3 C Sudan
Errigal Mountain 89 C1 ▲ N Ireland Erris Head 89 A3 headland W Ireland Erromango 141 G5 island S Vanuatu Erzgebirge see Ore Mountains Erzincan 121 F3 E Turkey Erzurum 121 G3 NE Turkey
Esbjerg 83 A7 W Denmark
Escanaba 40 C3 Michigan, N USA
Esch-sur-Alzette 84 E9 S Luxembourg Escondido 49 D9 California, W USA
Escudilla Mountain 44 C3 ▲ Arizona, SW USA
Escuinapa 53 D4 C Mexico
Escuintla 55 A3 S Guatemala
Escuintla 53 H6 SE Mexico
Esha Ness 91 A6 headland NE Scotland, United Kingdom
Eshkamesh 125 F4 NE Afghanistan Esk 91 E6 A England/Scotland, United Kingdom
Esk 93 E3 😝 N England, United Kingdom Eskisehir 120 B3 W Turkey Esmeraldas 63 B3 N Ecuador Espanola 44 D2 New Mexico, SW USA Esperance 137 C5 Western Australia Esperanza 53 C3 NW Mexico Esperanza 142 A3 Argentinian research station Antarctica
Espírito Santo 63 G7 state E Brazil Espiritu Santo 141 G4 island W Vanuatu Espoo 83 E5 S Finland Esquel 65 A7 SW Argentina Essaouira 70 B2 W Morocco Essen 84 C5 N Belgium Essen 101 A4 W Germany Estacado, Llano 44 F3 plain New Mexico/ Texas, SW USA Estados, Isla de los 65 B9 island S Argentina Estância 63 I5 E Brazil Estella 99 E2 N Spain Estepona 99 C6 S Spain Estevan 33 H7 Saskatchewan, S Canada

Estonia 83 F6 ♦ republic NE Europe Estrela, Serra da 99 B3 ♠ C Portugal Estremoz 99 B4 S Portugal Esztergom 105 D7 N Hungary **Étalle** 84 D9 SE Belgium **Etawah** 127 E3 N India Ethiopia 75 D4 ♦ republic E Africa Ethiopian Highlands 75 D4 plateau N Ethiopia

Etna, Mount 103 D8 Sicily, Italy Etosha Pan 76 B5 salt lake N Namibia Etrek 125 B3 😂 Iran/Turkmenistan Ettelbrück 84 E8 C Luxembourg Euboea 65 E5 island C Greece Eucla 13 E5 Ballat C Greece
Eucla 13 T D5 Western Australia
Euclid 40 F5 Ohio, N USA
Eufaula Lake 43 E8 ☒ Oklahoma, C USA Eugene 49 B4 Oregon, NW USA Eupen 84 E7 E Belgium Euphrates 123 C3 St SW Asia Eureka 49 A5 California, W USA Eureka 47 AJ California, W USA Eureka 47 B5 Nevada, W USA Europe 78 continent Eutin 101 C2 N Germany Eutin 101 C2 N Germany
Evansdale 43 F4 Iowa, C USA
Evanston 40 C5 Illinois, N USA
Evanston 47 D4 Wyoming, C USA
Evansville 40 C8 Indiana, N USA
Eveleth 43 E2 Minnesota, N USA
Everard, Lake 137 D5 salt lake South Australia

Everest, Mount 129 B5 ▲ China/Nepal

Everett 49 B2 Washington, NW USA

Everglades City 39 G8 Florida, SE USA Everglades, The 39 G8 wetland Florida, SE USA Evesham 93 D6 C England, United Kingdom
Evje 83 B6 S Norway
Évora 99 B4 C Portugal
Évreux 97 D2 N France Évros 107 F4 😂 SE Europe Évroia see Euboea 'Ewa Beach 51 B1 O'ahu, Hawaii, USA Excelsior Springs 43 E6 Missouri, C USA Exe 95 C4 & SW England, United Kingdom Exeter 95 C5 SW England, United Kingdom

Exmoor 95 C4 moorland SW England, United Kingdom

Exmouth 137 A3 Western Australia Exmouth 95 C5 SW England, United Kingdom Exmouth Gulf 137 A3 gulf Western Austi Extremadura 99 C4 cultural region W Spain Exuma Cavs 57 D2 islets C Bahamas Exuma Sound 57 D2 sound C Bahamas Eyemouth 91 F6 SE Scotland, United Kingdom

Eye Peninsula 91 B2 peninsula

NW Scotland, United Kingdom

Eyre Basin, Lake 137 E4 salt lake South Australia Eyre Mountains 139 B7 A South Island, New Zealand Evre North, Lake 137 E4 salt lake South Australia
Eyre Peninsula 137 E5 peninsula South Australia Eyre South, Lake 137 E5 salt lake

Fianarantsoa 76 G5 C Madagascar Fianga 72 G4 SW Chad Fier 107 D4 SW Albania Figeac 97 D5 S France Faaa 141 A6 W French Polynesia Faadhippolhu Atoll 127 C8 atoll N Maldives Figueira da Foz 99 A3 W Portugal Figueres 99 H2 E Spain Fabens 44 D4 Texas, SW USA Fada 72 H2 E Chad Fada-Ngourma 72 D4 E Burkina Faso Faenza 103 C3 N Italy Fagamalo 141 A4 N Samoa Fagne 84 C8 hill range S Belgium Faguibine, Lac 72 C3 ⊗ NW Mali Fairbanks 50 E2 Alaska, USA Fairfield 49 B6 California, W USA Fair Isle 91 A7 island NE Scotland, United Kingdom Findlay 40 E6 Ohio, N USA United Kingdom
Fairlie 139 B6 South Island, New Zealand
Fairmont 43 E4 Minnesota, N USA
Faisalabad 127 D2 NE Pakistan Faizabad 127 F3 N India Fakenham 95 G1 E England, United Kingdom Fakfak 131 H7 E Indonesia Finsterwalde 101 D4 E Germany Fiordland 139 A7 physical region South Island, New Zealand Falam 131 A2 W Myanmar (Burma) Falconara Marittima 103 D4 C Italy Falcon Reservoir 44 G6 Mexico/USA Falealupo 141 A4 NW Samoa Falkirk 91 D5 C Scotland, Fish 76 C6 A S Namibia United Kingdom Fishguard 93 A6 SW Wales, United Kingdom Fisterra, Cabo 99 A1 cape NW Spain Falkland Islands 65 C8 UK SW Atlantic Ocean
Fallbrook 49 D9 California, W USA
Falmouth 95 A6 SW England, Fitful Head 91 A7 headland NE Scotland. United Kingdom
Fito 141 B5 ▲ Upolu, C Samoa United Kingdom

Falster 83 B7 island SE Denmark
Falun 83 C5 C Sweden

Famagusta 112 D6 E Cyprus
Famagusta Bay 112 D6 bay E Cyprus
Famenne 84 D8 physical region

Fannich, Loch 91 C3
NW Scotland,

Farafangana 76 G6 SE Madagascar Farah 125 D5 W Afghanistan

SE Belgium

United Kingdom Fano 103 D3 C Italy

Fitzroy Crossing 137 C2 Western Australia

Fitzroy River 137 C2 😂

Flagstaff 44 B2 Arizona, SW USA

Flanders 84 A6 cultural regio

Flamborough Head 93 F3 headland E England, United Kingdom

Fläming 105 A3 hill range NE Germany

Western Australia

Farah Rud 125 D5 🚭 W Afghanistan Faranah 72 B4 S Guinea Farasan, Jaza'ir 123 B6 island group SW Saudi Arabia Fareham 95 E5 S England, Farenam 95 E5 S Engiand, United Kingdom Farewell, Cape 139 C4 headland South Island, New Zealand Fargo 43 D2 North Dakota, N USA Farg'ona 125 G3 E Uzbekistan Faribault 43 E3 Minnesota, N USA Faridabad 127 D3 N India Farkhor 125 F4 SW Tajikistan Farmington 43 G7 Missouri CUSA Farmington 45 07 Missouri, C CSA Farmington 44 C1 New Mexico, SW USA Farnborough 95 F4 S England, United Kingdom
Farne Islands 93 D1 island group N England, United Kingdom Farnham 95 F4 S England, United Kingdom
Faro 99 B5 S Portugal
Farquhar Group 76 H3 island group S Seychelles Farranfore 89 B6 SW Ireland Fastiv 109 D4 NW Ukraine
Fastnet Rock 89 B7 island SW Ireland Fauske 83 C2 C Norway Faversham 95 G4 SE England, United Kingdom Faxaflói 83 A1 hay W Iceland Faya 72 H2 N Chad Fayaoué 141 G6 C New Caledonia Fayetteville 39 A3 Arkansas, CUSA Fayetteville 39 H3 North Caroli SE USA Fdérik 72 B1 NW Mauritania Feale 89 B6 A SW Ireland
Fear, Cape 39 H4 headland Bald Head
Island, North Carolina, SE USA Fécamp 97 C1 N France Fecamp 97 CT N France Fehérgyarmat 105 G7 E Hungary Fehmarn 101 C2 island N Germany Fehmarn Belt 101 C2 strait Fehmarn Belt 101 C2 strait
Denmark /Germany
Feijó 63 C5 W Brazil
Feilding 139 D4 North Island,
New Zealand
Feira de Santana 63 H5 E Brazil
Felanitx 99 H4 E Spain
Felipe Carrillo Puerto 53 14 SE Mexico
Felixstowe 95 H3 E England,
United Kingdom United Kingdom Femunden 83 B4 ⊗ S Norway Fenoarivo Arsinanana 76 G5

E Madagascar
Fens, The 95 G1 wetland E England, United Kingdom

Feodosiya 109 F6 S Ukraine
Ferbane 89 D4 C Ireland Ferbane 89 D4 C. Ireland
Fergana Valley 125 G3 basin
Tajikistan/Uzbekistan
Fergus Falls 43 D2 Minnesota, N USA
Ferkessédougou 72 C4 N Côte d'Ivoire
Fermo 103 D4 C Italy
Fermoy 89 C6 SW Ireland
Fermor 103 C3 V Italy Ferrara 103 C3 N Italy Ferrol 99 B1 NW Spain Ferwerd 84 E2 N Netherlands Fethiye 120 B5 SW Turkey Fetlar 91 B6 island NE Scotland United Kingdom

Feuilles, Rivière aux 35 D2 49 Québec, E Canada

Feyzabad 125 G4 NE Afghanistan

Fez 70 C1 N Morocco

Fezzan 70 G4 cultural region S Libya Figueres 99 H2 E Spain
Figuig 70 D2 E Morocco
Fiji 14115 ◆ republic SW Pacific Ocean
Filadelfia 55 D6 W Costa Rica
Filey 93 F3 N England, United Kingdom
Filey Bay 93 F3 bay N England,
United Kingdom
Filipstad 83 C5 C Sweden
Finale Ligure 103 B3 NW Italy
Findhorn 91 E3 SY N Scotland,
United Kingdom Findlay 40 £6 Ohio, N USA Finger Lakes 37 £4 © New York, NE USA Finike 120 £5 SW Turkey Finland 83 £4 ♦ republic N Europe Finland, Gulf of 83 £5 gulf E Baltic Sea Finnmarksvidda 83 DI physical region N Norway Finschhafen 141 C2 C Papua New Guinea Firenze see Florence
Fischbacher Alpen 101 F7 E Austria

Flannan Isles 91 A2 island group NW Scotland, United Kingdom Flathead Lake 47 C2 ⊗ Montana, NW USA Flattery, Cape 49 A1 headland Washington, NW USA Fleetwood 93 C4 NW England, United Kingdom
Flensburg 101 C2 N Germany
Flinders 137 F3 🔄 Queensland, N Australia Oceania Flinders Island 137 G7 island Furneaux Group, Tasmania, SE Australia Flinders Ranges 137 F5 Flinders Ranges 137 F5 Ac South Australia Flin Flon 33 H6 Manitoba, C Canada Flint 93 C5 NE Wales, United Kingdom Flint 40 E4 Michigan, N USA Flint Island 135 island Line Islands, E Kiribati

Flitwick 95 F3 C England, United Kingdom
Florence 103 D3 C Italy
Florence 39 D4 Alabama, S USA Florence 39 G4 South Carolina, SE USA Florencia 63 B3 S Colombia Flores 55 B2 N Guatemala Flores 131 F8 island Nusa Tenggara, C Indonesia

Flores Sea 131 E8 sea C Indonesia Floriano 63 H4 E Brazil Floriano 65 H4 E BIAZII Florianopolis 63 G8 S Brazil Florida 65 C5 S Uruguay Florida 39 F6 ◆ state SE USA Florida Keys 39 G9 island group Florida, Florida, Straits of 39 H9 strait Atlantic Ocean/Gulf of Mexico Florissant 43 G6 Missouri, C USA Fly 141 A2 47 Indonesia/ Papua New Guinea

Foča 107 C2 SE Bosnia and Herzegovina Focşani 109 C6 E Romania Foggia 103 E5 SE Italy Foix 97 C7 S France Foleyet 35 C5 Ontario, S Canada Foligno 103 D4 C Italy Folkestone 95 H4 SE England, United Kingdom
Fond du Lac 40 C4 Wisconsin,
N USA
Fongafale 141 J3 • SE Tuvalu Fonseca, Gulf of 55 C4 gulf
C Central America
Fontainebleau 97 D3 N France
Fontenay-le-Comte 97 C4 NW France Fonyod 105 D8 W Hungary Forchheim 101 C6 SE Germany Forfar 91 E4 E Scotland, United Kingdom Forlh 103 C3 N Italy
Formby 93 C4 NW England,
United Kingdom
Formentera 99 G4 island Balearic Islands, E Spain Formosa 65 C4 NE Argentina Formosa, Serra 63 F5 A C Brazil Forres 91 E3 NE Scotland, United Kingdom
Forrest City 39 C3 Arkansas, C USA Fort Albany 35 C4 Ontario, C Canada Fortaleza 65 B1 N Bolivia Fortaleza 63 H4 NE Brazil Fort Augustus 91 D4 N Scotland, United Kingdom
Fort Collins 47 F5 Colorado, C USA Fort Davis 44 E4 Texas, SW USA Fort-de-France 57 K5 O W Martinique Fort Dodge 43 E4 Iowa, C USA Fortescue River 137 B3 Western Australia Fort Frances 35 A4 Ontario, S Canada Fort Good Hope 33 F4 Northwest Territories, NW Canada Forth 91 F6 C Scotland United Kingdom Forth 91 D5 & C Scotland, United Kingdom
Forth, Firth of 91 E5 estuary E Scotland, United Kingdom
Fort Lauderdale 39 G8 Florida, SE USA Fort Liard 33 F5 Northwest Territories, W Canada w Canada Fort Madison 43 F5 Iowa, C USA Fort McMurray 33 G6 Alberta, C Canada Fort McPherson 33 E4 Northwest Territories, NW Canada Fort Morgan 47 F5 Colorado, C USA Fort Myers 39 G8 Florida, SE USA Fort Nelson 33 F5 British Columbia W Canada Fort Peck Lake 47 E2 ⊠ Montana, NW USA
Fort Pierce 39 G8 Florida, SE USA
Fort Providence 33 F5 Northwest Territories, W Canada Fort St. John 33 F6 British Columbia, W Canada Fort Scott 43 E7 Kansas, C USA Fort Severn 35 B2 Ontario, C Canada Fort-Shevchenko 118 A5 W Kazakhstan Fort Simpson 33 F5 Northwest

Foula 91 A6 island NE Scotland, United Kingdom

Foulness Island 95 H3 island SE England, United Kingdom United Kingdom

Foulwind, Cape 139 B5 headland South
Island, New Zealand

Foumban 72 F5 NW Cameroon Foveaux Strait 139 A8 strain S New Zealand
Fowey 95 B5 & SW England, United Kingdom

Foxe Basin 33 13 sea Nunavut, N Canada

Foxford 89 C3 NW Ireland

Fox Glacier 139 B6 South Island, New Zealand Foyle 89 D2 😝 Ireland/Northern Ireland, Foyle, 202 24 freamon Northern fre United Kingdom Foyle, Lough 89 D1 inlet N Ireland Foynes 89 B5 SW Ireland Fraga 99 F2 NE Spain Fram Basin 143 C4 undersea feature Arctic Ocean

France 97 C4 ◆ republic W Europe

Franceville 76 B2 E Gabon Franche-Comté 97 E4 region E France Francis Case, Lake 43 C4 South Dakota, N USA Francisco Escárcega 53 H5 SE Mexico Francistown 76 D5 NE Botswana Frankfort 39 E2 state capital Kentucky, S USA Frankfurt am Main 101 B5 SW Germany Frankfurt an der Oder 101 E4 E Germany Fränkische Alb 101 C6 ▲ S Germany Franklin 39 D3 Tennessee, S USA Franklin D. Roosevelt Lake 49 C2 ☑ Washington, NW USA Franz Josef Land 118 D1 island group Pranz Joset Land 118 D1 Island group N Russian Federation Fraserburgh 91 F3 NE Scotland, United Kingdom Fraser Island 137 H4 island Queensland, Fraser Island 137 H4 island Queensland, E Australia Fray Bentos 65 C5 W Uruguay Fredericksburg 39 H2 Virginia, NE USA Frederickn 35 F5 province capital New Brunswick, SE Canada Frederiksted 51 S Virgin Islands (USA) Fredonia 44 B1 Arizona, SW USA Fredrikstad 83 B5 S Norway Freeport 57 D1 N Bahamas
Freeport 40 B5 Illinois, N USA
Freeport 44 H5 Texas, SW USA
Freetown 72 B4 ● W Sierra Leone Freiburg im Breisgau 101 B7 SW Germany SW Germany
Fremantle 137 B5 Western Australia Fremont 43 D5 Nebraska, C USA Fremont 40 E6 Ohio, N USA French Guiana 63 F2 French ♦ N South America French Polynesia 135 French ♦ S Pacific Ocean Fresnillo 53 E4 C Mexico Fresno 49 C7 California, W USA Frías 65 B4 N Argentina Friedrichshafen 101 B7 S Germany Frobisher Bay see Iqualit Frobayet 83 B4 com J CV Frohavet 83 R4 sound C Norway Frome 95 D4 SW England, United Kingdom Frome 95 D5 S S England, United Kingdom

Frome, Lake 137 F5 salt lake
South Australia

Frontera 53 H5 SE Mexico Frontignan 97 D6 S France Frøya 83 B4 island W Norway Frýdek-Místek 105 D6 E Czech Republic Fuengirola 99 D6 S Spain Fuerte Olimpo 65 C3 NE Paraguay Fuji, Mount 133 F6 ▲ Honshū, SE Japan Fukui 133 F6 SW Japan Fukuoka 133 D7 SW Japan Fukushima 133 G4 C Japan Fulda 101 C5 C Germany Funduti Atoll 141 J3 atoll C Tuvalu Fundy, Bay of 35 F5 bay Canada/USA Fürth 101 C6 S Germany Furukawa 133 G4 C Japan Fushun 129 G2 NE China Füssen 101 C7 S Germany

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Gaalkacyo 75 F4 C Somalia Gaelkacyo 75 F4 C Somalia
Gabela 76 B3 W Angola
Gabès 70 F2 E Tunisia
Gabès, Golfe de 70 F2 gulf E Tunisia
Gabon 76 A1 ◆ republic C Africa
Gabornoe 76 D6 ● SE Botswana
Gabrovo 107 F3 N Bulgaria
Gadag 127 D6 W India
Gadsden 39 E4 Alabama, S USA Gaeta 103 D5 C Italy Gaeta, Gulf of 103 C5 gulf C Italy Gafsa 70 E2 W Tunisia Gagnoa 72 C5 C Côte d'Ivoire Gagra 121 F1 NW Georgia Gaillac 97 C6 S France Gainesville 39 F6 Florida, SE USA Gainesville 39 F4 Georgia, SE USA

Futuna 141 H5 island S Vanuatu

Fyn 83 B7 island C Denmark Fyne, Loch 91 C5 inlet W Scotland,

Futuna, Île 141 J4 island S Wallis and Futuna Fuxin 129 G2 NE China

Fuzhou 129 G5 SE China

United Kingdom

Gainesville 44 H3 Tevas SW IISA Gainsborough 93 E4 E England, United Kingdom Gairdner, Lake 137 E5 salt lake South Australia

Galán, Cerro 65 A4 ▲ NW Argentina Galanta 105 D7 W Slovakia Galapagos Islands 63 A7 island group Ecuador, E Pacific Ocean Galashiels 91 E6 SE Scotland, United Kingdom Galați 109 D7 E Romania Galesburg 40 B6 Illinois, N USA Galicia 99 B1 cultural region NW Spain Europe Galkynys 125 E3 NE Turkmenistan Galle 127 E8 SW Sri Lanka Gallipoli 103 F6 SE Italy Gällivare 83 D2 N Sweden
Galloway, Mull of 91 C7 headland S Scotland, United Kingdom Gallup 44 C2 New Mexico, SW USA Galtat-Zemmour 70 B3 C Western Sahara Galty Mountains 89 C6 & Streland Galveston 44 I5 Texas, SW USA Galway 89 C4 W Ireland Galway 89 C4 W Ireland
Galway Bay 89 B4 bay W Ireland
Gambell 50 D1 Saint Lawrence Island,
Alaska, USA
Gambia 72 A3 ◆ republic W Africa
Gambia 72 B3 ♣7 W Africa
Gambier, Îles 135 island group
E French Polynesia
Gamboma 76 B2 E Congo
Ganado 44 C2 Arizona, SW USA
Gančia 121 H2 W Azerbaijan
Gandajika 76 G3 S Dem. Rep. Congo
Gander 35 H3 Newfoundland, Gander 35 H4 Newfoundland, Newfoundland and Labrador, SE Canada Gandhidham 127 C4 W India Gandía 99 F4 E Spain
Ganges 127 G3 🖨 Bangladesh/India
Ganges, Mouths of the 127 G4 delta Bangladesh/India Gangtok 127 G3 N India Gannett Peak 47 D4 ▲ Wyoming, C USA Ganzhou 129 G5 S China Gao 72 D3 E Mali Gao 12 D3 E Mall
Gaoual 72 B4 N Guinea
Gap 97 E6 SE France
Gaplangyr Platosy 125 C2 ridge
Turkmenistan/Uzbekistan Garabil Belentligi 125 D4 ▲ Mary Welayaty, S Turkmenistan Garabogaz Aylagy 125 B2 bay NW Turkmenistan Garachiné 55 I7 SE Panama Garagum 125 D3 desert C Turkmenistan Garagum Canal 125 E4 canal C Turkmenistan Gara, Lough 89 C3 N Ireland Garda, Lake 103 C2 NE Italy Garden City 43 B7 Kansas, C USA Gardīz 125 F5 E Afghanistan Garforth 93 D4 N England, United Kingdom

Garissa 75 E5 E Kenya Garonne 97 C5 A S France Garoowe 75 F3 N Somalia Garoua 72 G4 N Cameroon Garrison 89 D2 W Northern Ireland, United Kingdom Garron Point 89 F2 headland E Northern Ireland, United Kingdom Garry Lake 33 H4 ⊗ Nunavut, N Canada Garsen 75 E6 S Kenya Garth 91 A6 NE Scotland, United Kingdom Garwolin 105 F4 E Poland Gar Xincun 129 A4 W China Gary 40 C5 Indiana, N USA Gascogne see Gascony
Gascony 97 C6 cultural region S France
Gascony, Gulf of 97 B6 gulf France/Spain
Gascoyne River 137 B4 Western Australia Gasmata 141 C2 E Papua New Guinea Gaspé 35 F4 Québec, SE Canada Gaspé, Péninsule de 35 F4 peninsula Québec, SE Canada
Gastonia 39 G3 North Carolina, SE USA
Gatchina 111 A4 NW Russian Federation
Gateshead 93 D2 NE England, United Kingdom

Gatineau 35 D5 Québec, SE Canada

Gatún, Lake 55 G6 ☒ C Panama Gavbandi 123 F4 S Iran Gavere 84 B6 NW Belgium Gävle 83 D5 C Sweden Gawler 137 E6 South Australia Gaya 127 F3 N India Gayndah 137 H4 Queensland, E Australia Gaza 123 G6 NE Gaza Strip Gaza Strip 123 G6 disputed region SW Asia Gaziantep 121 E4 S Turkey

Gazinargus 25 Turkey Gazinagusa see Famagusta Gazli 125 E3 C Uzbekistan Gazojak 125 D2 NE Turkmenistan Gbanga 72 B5 N Liberia Gdańsk 105 D2 N Poland Gedaref 75 D2 E Sudan Gediz 120 B3 W Turkey

Gediz Nehri 120 B3 W Turkey Gediz Nehri 120 B3 &7 W Turkey Geel 84 D6 N Belgium Geelong 137 F6 Victoria, SE Australia Geilo 83 B5 S Norway

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◆ Country • Country capital ◆ Administrative region ♦ Dependent territory O Dependent territory capital Mountain range ▲ Mountain

SE USA

Territories, W Canada

Fort Smith 33 G5 Northwest Territories,

Fort Stockton 44 E4 Texas, SW USA Fort Vermilion 33 F6 Alberta, W Canada Fort Walton Beach 39 D6 Florida,

W Canada

Fort Smith 39 A3 Arkansas, C USA

Fort Wavne 40 D6 Indiana, N USA

United Kingdom Fort Worth 44 H3 Texas, SW USA

Fort William 91 C4 N Scotland

Fort Yukon 50 F2 Alaska, USA Fougères 97 C2 NW France

GELA Gela 103 D8 Sicily, Italy Geldermalsen 84 D4 C Netherlands Geleen 84 E6 SE Netherlands Gellinsor 75 F4 C Somalia Gembloux 84 C7 Belgium
Gemena 76 C1 NW Dem. Rep. Congo
Gemona del Friuli 103 D2 NE Italy General Alvear 65 B5 W Argentina General Eugenio A. Garay 65 B3 S Paraguay General Santos 131 F5 S Philippines Geneva 101 A8 SW Switzerland Geneva, Lake 101 A8 ⊗ France/Switzerland Genève see Geneva Genk 84 D6 NE Belgium Gennep 84 E5 SE Netherlands 103 B3 NW Italy Genoa, Gulf of 103 B3 gulf NW Italy Genova see Genoa Gent see Ghent George, Lake 39 G7 ⊗ Florida, SE USA Georgetown 63 E2 ● N Guyana George Town 57 D2 C Bahamas George Town 57 B4 O SW Cayman Islands George Town 131 B5 C Malaysia Georgetown 39 H4 South Carolina, SE USA George V Land 142 C6 physical region Georgia 121 G1 ◆ republic SW Asia Georgia 39 E5 ◆ state SE USA Georgian Bay 40 F3 lake bay Ontario, S Canada Georgia, Strait of 49 A1 strait British Columbia, W Canada Georg von Neumayer 142 B3 German research station Antarctica Gera 101 D5 E Germany Geraldine 139 C6 South Island. New Zealand

Geraldton 137 B5 Western Australia Gerede 121 C2 N Turkey Gereshk 125 E6 SW Afghanista Gering 43 A5 Nebraska, C USA Gerlach 47 A5 Nevada, W USA Gerlachovský štít 105 F6 A N Slovakia Germany 101 B5 ♦ federal republic N Europe Gerona see Girona Gerpinnes 84 C7 S Belgium Gerze 121 D2 N Turkey Getafe 99 D3 C Spain Gevaş 121 H4 SE Turkey Ghana 72 D5 ♦ republic W Africa Ghanzi 76 C5 W Botswana Ghardaïa 70 E2 N Algeria Gharyan 70 F2 NW Libya Ghazni 125 F5 E Afghanistar Ghent 84 B6 NW Belgium Ghudara 125 G3 SE Tajikistan Ghurian 125 D5 W Afghanistan Giannitsá 107 E4 N Greece Gibraltar 99 C6 UK ♦ SW Europe Gibraltar, Strait of 99 strait Atlantic Ocean/Mediterranean Sea Gibson Desert 137 C4 desert Western Australia Giedraičiai 83 F7 E Lithuania Giessen 101 B5 W Germany Giffnock 91 D6 C Scotland United Kingdom
Gifu 133 F6 SW Japan
Giganta, Sierra de la 53 B3 & W Mexico Gigha Island 91 B6 island SW Scotland United Kingdom G'ijduvon 125 E3 C Uzbekistan Gijón 99 C1 NW Spain Gila River 44 A3 😂 Arizona, SW USA Gilf Kebir Plateau 70 H4 plateau SW Egypt Gilford 89 E3 SE Northern Ireland, United Kingdom

Gillette 47 F3 Wyoming, C USA

Gillingham 95 G4 SE England, United Kingdom Gilroy 49 B7 California, W USA Giluwe, Mount 141 B2 A W Papua New Guinea
Gingin 137 B5 Western Australia
Giresun 121 E2 NE Turkey Girne 112 C6 N Cyprus Girona 99 H2 NE Spain Girvan 91 D6 W Scotland, United Kingdom Gisborne 139 E3 NE New Zealand Gissar Range 125 F3

Tajikistan/Uzbekistan Giulianova 103 D4 C Italy Giurgiu 109 C7 S Romania Giza 70 I2 N Egypt Gizo 141 E2 NW Solomon Islands Gjirokastër 107 D4 S Albania Gjoa Haven 33 H3 King William Island, Nunavut, NW Canada Gjøvik 83 B5 S Norway
Glace Bay 35 G5 Cape Breton Island,
Nova Scotia, SE Canada Glacier Peak 49 B2 ▲ Washington, NW USA Gladstone 137 H4 Queensland, E Australia Glåma 83 B5 ♣ S Norway Glasgow 91 D6 S Scotland, United Kingdom Glastonbury 95 D4 SW England, United Kingdom United Kingdom

Glazov 111 D5 NW Russian Federation

Grafton 137 H5 New South Wales. Glen Coe 91 C4 valley N Scotland, United Kingdom

Glendale 44 B3 Arizona, SW USA SE Australia Grafton 43 D1 North Dakota, N USA Glendale 49 C8 California W USA Graham Land 142 A4 physical region Glendive 47 F2 Montana, NW USA Glengad Head 89 D1 headland N Ireland Antarctica

Grajewo 105 F2 NE Poland Glengarriff 89 B7 S Ireland Grampian Mountains 91 D4 ▲ C Scotland, United Kingdom Granada 55 D5 SW Nicaragua Granada 99 D5 S Spain Gran Chaco 65 B3 lowland plain Glenluce 91 D7 SW Scotland United Kingdom

Glen Mor 91 D4 valley NW Scotland, United Kingdom
Glenrothes 91 E5 E Scotland,
United Kingdom
Glens Falls 37 E3 New York, NE USA South America

Grand Bahama Island 57 C1 island N Bahamas Glenties 89 C2 NW Ireland Glin 89 B5 SW Ireland Glittertind 83 B4 ▲ S Norway Grand Canal 89 C4 canal C Ireland Grand Canyon 44 B1 canyon Arizona, SW USA Grand Cayman 57 C4 island Gliwice 105 D5 S Poland Globe 44 B3 Arizona, SW USA Głogów 105 C4 SW Poland SW Cayman Islands **Grande, Bahía** 65 B8 bay S Argentina Gloucester 141 C2 E Papua New Guinea Grande de Matagalpa, Río 55 E4 ♣ C Nicaragua Grande Prairie 33 F6 Alberta, W Canada Grand Erg Occidental 70 D2 desert Gloucester 95 D3 C England United Kingdom

Glovers Reef 55 C2 reef E Belize Głowno 105 E3 C Poland W Algeria Gniezno 105 D3 C Poland Gobabis 76 C5 E Namibia Grand Erg Oriental 70 E3 desert Algeria/Tunisia

Grande, Rio 44 G5 😝 Mexico/USA Gobi 129 E3 desert China/Mongolia Grande, Rio 44 65 & Mexico/USA Grande Terre 57 K5 island E Guadeloupe Grand Falls 35 H4 Newfoundland, Newfoundland and Labrador, SE Canada Grand Forks 43 D2 North Dakota, N USA Grand Island 43 C5 Nebraska, C USA Grand Junction 47 E5 Colorado, C USA Gobo 133 E7 SW Japan Godalming 95 F4 SE England, United Kingdom Godavari 127 E5 😂 C India Godhra 127 D4 W India Godoy Cruz 65 A5 W Argentina Goeree 84 B5 island SW Netherlands Grand Rapids 40 D4 Michigan, N USA Grand Rapids 40 E4 Minnesota, N USA Grand Union Canal 95 E2 canal SE England, United Kingdom Goes 84 R5 SW Netherlands Gogebic Range 40 B2 hill range Michigan/Wisconsin, N USA Goiânia 63 G6 C Brazil Grange 89 C2 N Ireland Goiás 63 F6 state C Brazil Gojome 133 F3 NW Japan Gökdepe 125 C3 C Turkmenistan Grangemouth 91 D5 C Scotland, United Kingdom Granite City 40 B7 Illinois, N USA Göksun 121 E4 C Turkey
Gol 83 B5 S Norway
Golan Heights 123 H5 SW Syria Granite City 40 B7 Initions, N Osh Granite Peak 47 B4 ▲ Nevada, W USA Gran Paradiso 103 A2 ▲ NW Italy Grantham 93 E6 E England, Goldap 105 F2 NE Poland Gold Beach 49 A4 Oregon, NW USA Gold Coast 137 H5 © cultural region United Kingdom

Grantown-on-Spey 91 E3 N Scotland,
United Kingdom

Grants 44 D2 New Mexico, SW USA Oueensland, E Australia Golden Bay 139 C4 bay South Island, New Zealand Goldfield 47 B6 Nevada, W USA Grantsburg 40 A3 Wisconsin, N USA Grants Pass 49 B4 Oregon, NW USA Granville 97 B2 N France Goldsboro 39 H3 North Carolina, SE USA Graulhet 97 C6 S France Goleniów 105 B2 NW Poland Golmud 129 D3 C China Goma 76 D2 NE Dem. Rep. Congo Grave 84 E5 SE Netherlands Gravesend 95 G4 SE England United Kingdom United Kingdom

Grayling 50 D2 Alaska, USA

Graz 101 E8 SE Austria

Great Abaco 57 D1 island N Bahamas Gombi 70 24 E Nigeria Gómez Palacio 53 D3 C Mexico Gonaïves 57 F4 N Haiti Gonâve, Île de la 57 E4 island C Haiti Great Artesian Basin 137 F4 lowlands Gonder 75 D3 NW Ethiopia Gondia 127 E4 C India Queensland, C Australia Great Australian Bight 137 D5 bight Gongola 72 F4 😝 E Nigeria S Australia Great Barrier Island 139 D2 island N New Zealand Great Barrier Reef 137 G2 reef Good Hope, Cape of 76 B7 cape SW South Africa Goodland 43 B6 Kansas, C USA Queensland, NE Australia
Great Basin 47 B5 basin W USA
Great Bear Lake 33 F4 @ Northwest Goodwick 93 A6 SW Wales. United Kingdom

Goole 93 E4 E England, United Kingdom Goondiwindi 137 G5 Oueensland. Territories, NW Canada Great Belt 83 B7 channel Baltic E Australia Goor 84 F4 E Netherlands Goose Green 65 C9 E Falkland Islands Sea/Kattegat Great Bend 43 C6 Kansas, C USA Great Dividing Range 134

▲ NE Australia
Greater Antilles 57 E5 island group Goose Lake 49 B5 ⊗ California/Oregon, W USA Göppingen 101 C6 SW Germany Gorakhpur 127 F3 N India Goré 72 G5 S Chad Gore 75 D4 C Ethiopia West Indies West Indies
Greater Caucasus 121 12

▲ N Azerbaijan
Great Exhibition Bay 139 C1 inlet North Gore 139 B8 South Island, New Zealand Gorey 89 E5 SE Ireland Gorey 95 H6 Jersey, Channel Islands Gorgan 123 E1 N Iran Island, New Zealand Great Exuma Island 57 D2 island C Bahamas Great Falls 47 D2 Montana, NW USA Gori 121 H1 C Georgia
Gorinchem 84 D5 C Netherlands
Goris 121 I3 SE Armenia
Görlitz 101 E4 E Germany Great Hungarian Plain 105 D8 plain SE Europe Great Inagua 57 F3 island S Bahamas Goroka 141 B2 C Papua New Guinea Gorontalo 131 F6 Celebes, C Indonesia Gorssel 84 E4 E Netherlands Great Karoo 76 C7 plateau region S South Africa Great Khingan Range 129 G1 Gort 89 C5 W Ireland M NE China Great Lakes 40 lakes Canada/USA Great Malvern 93 D6 W England, Gorzów Wielkopolski 105 C3 W Poland Goshogawara 133 F3 C Japan United Kingdom Great Nicobar 127 H6 island SE India Gosport 95 E5 S England, United Kingdom Great Ouse 93 F6 🗗 E England, Göteborg see Gothenburg United Kingdom Great Plains 43 C5 plains Canada/USA Gotha 101 C5 C Germany Gothenburg 83 B6 S Sweden Gotland 83 D6 island SE Sweden Goto-retto 133 C8 island group Great Rift Valley 65 depressio Asia/Africa

Great Ruaha 75 D7 🗗 S Tanzania SW Japan Gotsu 133 D6 SW Japan Göttingen 101 C4 C Germany Great Saint Bernard Pass 103 A1 pass Italy/Switzerland Great Salt Lake 47 C4 salt lake Utah, Gouda 84 C4 C Netherlands Gouin, Réservoir 35 D4
Québec, Great Salt Lake Desert 47 C5 plain SE Canada

Goulburn 137 G6 New South Wales, Utah, W USA Great Salt Plains 43 C7 plain Oklahoma, SE Australia CUSA Goundam 72 D3 NW Mali Gouré 72 F3 SE Niger Governador Valadares 63 H7 SE Brazil Great Sand Sea 70 H3 desert Egypt/Libya Great Sandy Desert 137 C3 desert Western Australia Govi Altayn Nuruu 129 E2 Great Slave Lake 33 G5 ⊗ Northwest ▲ S Mongolia

Gower 93 B7 peninsula S Wales,
United Kingdom
Gowran 89 D5 SE Ireland
Goya 65 C4 NE Argentina
Goz Beïda 72 H4 SE Chad Territories, NW Canada Great Torrington 95 B4 SW England, United Kingdom

Great Victoria Desert 137 C4 desert South Australia/Western Australia Great Wall of China 129 E3 ancient Gozhê 129 C4 W China Gozo 112 A6 island N Malta monument N China Asia Great Yarmouth 95 H2 E England, Gradačac 107 C2 N Bosnia United Kingdom Gredos, Sierra de 99 C3 ▲ W Spain and Herzegovina

Gradaús, Serra dos 63 F5 ▲ C Brazil Greece 107 D5 ◆ republic SE Europe Dependent territory ◆ Administrative region ◆ Country • Country capital

Greelev 47 F5 Colorado, C USA Green Bay 40 C3 Wisconsin, N USA Green Bay 40 C3 lake bay Michigan Wisconsin, N USA Greencastle 89 E3 S Northern Ireland. United Kingdom

Greeneville 39 F3 Tennessee, S USA Greenfield 37 F4 Massachusetts NE USA Green Islands 141 D2 island group NE Papua New Guinea Greenland 28 Danish ♦ NE North America

Greenland Sea 143 C5 sea Arctic Ocean

Green Mountains 37 E3 A Vermont, NE USA Greenock 91 D5 W Scotland, United Kingdom Green River 141 A1 NW Papua New Guinea Green River 47 D5 Utah, W USA Green River 47 D5 Utan, W USA Green River 47 D4 Wyoming, C USA Green River 47 D5 ♣ W USA Green River 39 D2 ♣ Kentucky, C USA Greensboro 39 G3 North Caroli SE USA Greensburg 37 B5 Pennsylvania, NE USA Green Valley 44 B3 Arizona, SW USA Greenville 39 C4 Mississippi, S USA Greenville 39 H3 North Carolina, SE USA Greenville 39 F4 South Carolina, SE USA Greenville 44 H3 Texas, SW USA Greenwood 39 C4 Mississippi, S USA Greenwood 39 F4 South Carolina, SE USA Gregory Range 137 G3 ▲ Queensland, E Australia Greifswald 101 D2 NE Germany Grenada 39 C4 Mississippi, S USA Grenada 57 J6 ♦ commonwealth republic SE West Indies republic SE West Indies Grenadines, The 57 K6 island group Grenada/St Vincent and the Grenadines Grenoble 97 E5 E France Gresham 49 B3 Oregon, NW USA Gretna 91 E7 SW Scotland, Gretna 91 E7 SW Scotland, United Kingdom Grevenmacher 84 E9 E Luxembourg Greyboull 47 E3 Wyoming, C USA Greymouth 139 B6 South Island, New Zealand Grey Range 137 F4 & New South Wales/ Queensland, E Australia Greystones 89 E4 E Ireland Griffin 39 E5 Georgia, SE USA Grimari 72 H5 C Central African Republic
Grimsby 93 F4 E England,
United Kingdom
Groesbeek 84 E5 SE Netherlands Grójec 105 F4 C Poland Groningen 84 F2 NE Netherlands Groote Eylandt 137 E2 island Northern Groote Eylandt 137 E2 islama Normeri Territory, N Australia Grootfontein 76 C5 N Namibia Groot Karasberge 76 C6 ▲ S Namibia Grosseto 103 C4 C Italy Grossglockner 101 D8 ▲ W Austria Groznyy 111 B9 SW Russian Federation Grudziądz 105 D2 C Poland Grums 83 C5 C Sweden Gryazi 111 B6 W Russian Federation Gryfice 105 C2 NW Poland Guabito 55 F6 NW Panama Guadalaiara 53 D5 C Mexico Guadalajara 99 D3 C Spain Guadalcanal 141 E3 island C Solomon Islands

Guadalquivir 99 C5

W Spain Guadalupe 53 D4 C Mexico Guadalupe Peak 44 E4 ▲ Texas, SW USA Guadalupe River 44 H5 ♣ SW USA Guadarrama, Sierra de 99 E3 A C Spain Guadeloupe 57 K5 French ♦
E West Indies
Guadiana 99 B4 ♣ Portugal/Spain Guadix 99 D5 S Spain Guaimaca 55 D3 C Honduras Gualaco 55 D3 C Honduras Gualán 55 B3 C Guatemala Gualeguaychú 65 C5 E Argentina Guam 51 US ♦ W Pacific Ocean Guamúchil 53 C3 C Mexico Guanabacoa 57 B2 W Cuba Guanajuato 53 E4 C Mexico Guanare 63 C2 N Venezuela Guangyuan 129 E4 C China Guangzhou 129 F6 S China Guantánamo 57 E4 SE Cuba Guaporé, Rio 63 D5 😝 Bolivia/Brazil Guarda 99 B3 N Portugal Guarumal 55 G7 S Panama Guasawe 53 C3 C Mexico Guasopa 141 D3 SE Papua New Guinea Guatemala 55 A3 ◆ republic Central America

Guatemala Basin 14 undersea feature E Pacific Ocean E Pacific Ocean

Guatemala City 55 B3 ● C Guatemala
Guaviare, Río 63 C2 ♣ E Colombia
Guayama 51 E Puerto Rico Guayaquil 63 A4 SW Ecuador Guayaquil, Gulf of 63 A4 gulf SW Ecuador Guaymas 53 B3 NW Mexico Guavnabo 51 E Puerto Rico Gubadag 125 D2 N Turkmenistan Guben 101 E4 E Germany Gubkin 111 A6 W Russian Federation Gudaut'a 121 F1 NW Georgia Guéret 97 D4 C France Guernsey 95 G6 UK ♦ Channel Islands,

NW Europe

W Atlantic Ocean

NW Europe Guerrero Negro 53 A3 W Mexico Guiana Basin 14 undersea feature

Mountain range

United Kingdom Guilin 129 F5 S China Guimarães 99 B2 N Portugal
Guinea 72 B4 ♦ republic W Africa
Guinea-Bissau 72 A4 ♦ republic W Africa
Guinea, Gulf of 72 E6 gulf E Atlantic Ocean
Guiyang 129 E5 S China
Gujarat 127 C4 cultural region
W India, Asia
Gujranwala 127 D2 NE Pakistan Guirat 127 D2 F Pakistan Gulbarga 127 D5 C India Gulfport 39 C6 Mississippi, S USA Gulf, The see Persian Gulf Guliston 125 F3 E Uzbekistan Gulkana 50 E3 Alaska, USA Gulu 75 C5 N Uganda Gümüşhane 121 F2 NE Turkey Güney Doğu Toroslar 121 F4 ▲ SE Turkey

Gunnbjørn Fjeld 143 A6 ▲ C Greenland

Gunnedah 137 G5 New South Wales, SE Australia

Gunnison 47 E6 Colorado, C USA Gunnison 47 D5 Utah, W USA Gurbansoltan Eje 125 D2 N Turkmenistan Gurbantunggut Shamo 129 C2 desert NW China Gurktaler Alpen 101 E8 📤 S Austria Gürün 121 E3 C. Turkev Gusau 72 E4 NW Nigeria
Gusev 83 E7 W Russian Federation
Gustavus 50 F4 Alaska, USA Güstrow 101 D2 NF Germani Gütersloh 101 B4 W Germany Guthrie 44 F3 Texas, SW USA Guwahati 127 G3 NE India Guyana 63 E2 ◆ republic N South America Guymon 43 B7 Oklahoma, C USA Güzelyurt 112 C6 N Cyprus Gwadar 127 A3 SW Pakistan Gwalior 127 E3 C India Gwanda 76 D5 SW Zimbabwa Gweedore 89 C1 NW Ireland Gyangzê 129 C5 W China Gyaring Co 129 C4 ⊗ W China Gympie 137 H4 Queensland, E Australia Gyomaendrőd 105 F8 SE Hungary Gyöngyös 105 E7 NE Hungary Győr 105 D7 NW Hungary Gyumri 121 G2 W Armenia Η Haacht 84 C6 C Belgium Haaksbergen 84 F4 E Netherlands Haarlem 84 C3 W Netherlands Haast 139 R6 South Island New Zealand Hachijo-jima 133 G7 island Izu-shoto, SE Japan Hachinohe 133 G3 C Japan Haddington 91 E5 SE Scotland, United Kingdom Hadejia 72 F4 N Nigeria Hadeija 72 F4 AV N Nigeria Hadeija 72.14 € N Nigeria Hadleigh 95 63 SE England, United Kingdom Ha Dong 131 C2 N Vietnam Hadramaut 123 D7 ▲ S Yemen Haeju 133.45 S North Korea Hagàtña 51 O NW Guam Hagerman 47 C4 Idaho, NW USA Hagerstown 39 H1 Maryland, NE USA
Hagondange 97 F2 NE France
Hag's Head 89 B5 headland W Ireland
Haguenau 97 F2 NE France
Hague, The 84 C4 • W Netherlands
Haicheng 129 G3 NE China
Haifa 123 G5 NI srael
Haikon 129 F6 S China
Ha'll 123 B3 NW Saudi Arabia Hailar see Hulun Buir Hailsham 95 G4 SE England, United Kingdom Hailuoto 83 E3 island W Finland Hainan Dao 129 F6 island S China Haines 50 F3 Alaska, USA Hainichen 101 D5 E Germany Hainchen 101 D5 E Germany Hai Phong 131 C2 N Vietnam Haiti 57 F4 ♦ republic C West Indies Haiya 75 D2 NE Sudan Hajdúhadház 105 F7 E Hungary Hakodate 133 F2 NE Japan Halberstadt 101 C4 C Germany Halden 83 B5 S Norway Halfmoon Bay 139 B8 Stewart Island, Southland, New Zealand Halifax 35 G5 province capital Nova Scotia, SE Canada Halifax 93 D4 N England, United Kingdom Halkirk 91 E2 N Scotland, United Kingdom

Halladale 91 D2 😽 N Scotland,

Hamadan 123 D2 W Iran Hamah 123 B2 W Syria Hamamatsu 133 F6 S Japan Hamar 83 B5 S Norway Hamburg 101 C3 N Germany Hamd, Wadi al 123 A4 dry watercourse W Saudi Arabia Hämeenlinna 83 E5 S Finland Hämeenlinna 8.5 S Finland Hamersley Range 137 B3 May Western Australia Hamgyong-sanmaek 133 B4 May N North Korea Hamhung 133 B4 C North Korea Hamhung 135 B6 C North Korea Hamilton 35 D6 Ontario, S Canada Hamilton 139 D3 North Island, New Zealand Hamilton 91 D6 S Scotland, United Kingdom
Hamilton 39 D4 Alabama, S USA
Hamim, Wadi al 70 G3 😂 NE Libya Hamm 101 B4 W Germany
Hammamet, Golfe de 112 E4 gulf
NE Tunisia Hammar, Hawr al 123 C3 ⊗ SE Iraq Hammond 40 C5 Indiana, N USA Hampden 139 B7 South Island, New Zealand Hamrun 112 B6 C Malta Hanalei 51 A1 Kaua'i, Hawaii, USA Handan 129 F4 E China Hanford 49 C7 California, W USA Hangayn Nuruu 129 D2 AC C Mongolia
Hangö see Hanko Hangzhou 129 G4 SE China Hanko 83 E5 SW Finland Hanley 93 D5 C England, United Kingdom Hanmer Springs 139 C6 South Island, New Zealand Hannibal 43 F6 Missouri, C USA Hannover see Hanover Hanöbukten 83 C7 bay S Sweden Hanoi 131 C2 ● N Vietnam Hanover 101 C4 NW Germany Han Shui 129 F4 & C China Hanzhong 129 E4 C China Haora 127 G4 NE India Haparanda 83 E3 N Sweden Haradok 109 D1 N Belarus Haramachi 133 G4 E Japan Harare 76 E4 ● NE Zimbabwe Harbel 72 B5 W Liberia Harbin 129 H2 NE China Hardangerfjorden 83 A5 fjord S Norway Hardangervidda 83 B5 plateau S Norway Hardenberg 84 F3 E Netherlands Harelbeke 84 B6 W Belgium Haren 84 F2 NE Netherlands Harer 75 E3 E Ethiopia Hargeysa 75 E3 NW Somalia Harima-nada 133 E6 sea S Japan Harina-Hada 155 E6 Sea 5 Japan Harina 125 E5 ♣ Afghanistan/Iran Harlan 43 D5 Iowa, C USA Harlech 93 B5 NW Wales, United Kingdom
Harlingen 84 D2 N Netherlands
Harlingen 44 H6 Texas, SW USA Harlow 95 G3 E England, United Kingdom

Harney Basin 49 C4 basin Oregon, NW USA **Härnösand** 83 D4 C Sweden Har Nuur 129 D2 ⊗ NW Mongolia Harpenden 95 F3 E England, United Kingdom Harper 72 C5 NE Liberia Harricana 35 D4 😂 Québec, SE Canada Harris 91 B3 physical region NW Scotland, United Kingdom Harrisburg 40 C8 Illinois, N USA Harrisburg 37 C5 state capital Pennsylvania, NE USA Harrisonburg 39 H2 Virginia, NE USA Harrison, Cape 35 G2 cape Newfoundland and Labrador, E Canada Harris, Sound of 91 B3 strait NW Scotland, United Kingdom Harrogate 93 D3 N England, United Kingdom

Harrow 95 F3 SE England,
United Kingdom

Harstad 83 C2 N Norway Hartford 37 E4 state capital Connecticut, NE USA Hartland Point 95 B4 headland SW England, United Kingdom **Hartlepool** 93 E2 N England, United Kingdom Hartwell Lake 39 F4 ☑ Georgia/ South Carolina, SE USA

Har Us Gol 129 D2 ⊗ W Mongolia

Har Us Nuur 129 C2 ⊗ NW Mongolia Harvev 43 C2 North Dakota, N USA Harwich 95 H3 E England, United Kingdom Haryana 127 D2 state N India Harz 101 C4 ▲ C Germany Haslemere 95 F4 SE England, United Kingdom Hasselt 84 D6 NE Belgium Hastings 139 E4 North Island, New Zealand New Zealand **Hastings** 95 G4 SE England,
United Kingdom **Hastings** 43 C5 Nebraska, C USA

Guiana Highlands 63 E3 🗻 Halmahera, Pulau 131 G6 island E Indonesia **Halmahera Sea** 131 G6 sea E Indonesia N South America Guider 72 G4 N Cameroon Halmstad 83 C6 S Sweden Haltwhistle 93 C2 N England, United Kingdom Hamada 133 D6 SW Japan Guidimouni 72 F3 S Niger Guildford 95 F4 SE England, United Kingdom Halle 84 C7 C Belgium Halle 101 D4 C Germany
Halle-Neustadt 101 D4 C Germany Halley 142 B3 UK research station Antarctica
Halls Creek 137 D2 Western Australia ▲ Mountain 🛣 Volcano 🚙 River 🐵 Lake 🖾 Reservoir

Glenamov 89 B3 NW Ireland 162

Hatch 44 D3 New Mexico, SW USA Hatfield 95 F3 E England, United Kingdom Hattem 84 E3 E Netherlands Hatteras, Cape 39 I3 headland North Carolina, SE USA Hattiesburg 39 C6 Mississippi, S USA Hat Yai 131 B5 SW Thailand Haugesund 83 A5 S Norway Haukeligrend 83 B5 S Norway Haukivesi 83 F4 @ SE Finland Hauraki Gulf 139 D2 gulf North Island, N New Zealand Hauroko, Lake 139 A8 ⊗ SW New Zealand Hautes Fagnes 84 E7 ▲ E Belgium Hauts Plateaux 70 D2 plateau Algeria/Morocco Algeria/Morocco
Hauzenberg 101 E6 SE Germany
Havana 57 B2 • W Cuba
Havant 95 F5 S England, United Kingdom
Havelock 39 H4 North Carolina, SE USA Havelock North 139 E4 North Island, New Zealand Haverfordwest 93 A7 SW Wales, United Kingdom

Haverhill 95 G2 E England, United Kingdom Havířov 105 D5 E Czech Republic Havre 47 D1 Montana, NW USA Havre-St-Pierre 35 F4 Québec, E Canada Hawi 51 D2 Hawaii, USA Hawaii 51 C1 ◆ state USA, C Pacific Ocean Hawai'i 51 D3 island USA, C Pacific Ocean

Hawea, Lake 139 B7 ⊗ South Island, New Zealand Hawera 139 D4 North Island, New Zealand

Hawes 93 D3 N England, United Kingdom Hawick 91 F6 SE Scotland United Kingdom

Hawke Bay 139 E4 bay North Island, New Zealand
Hawthorne 47 A6 Nevada, W USA
Hay 137 F6 New South Wales,
SE Australia
Hayden 44 B3 Arizona, SW USA Hayes 35 A2 A Manitoba, C Canada Hay-on-Wye 93 C6 E Wales, United Kingdom Hay River 33 G5 Northwest Territories, W Canada Hays 43 C6 Kansas, C USA Haysyn 109 D5 C Ukraine
Haysyn 109 D5 C Ukraine
Haywards Heath 95 G4 SE England,
United Kingdom
Hazar 125 B3 W Turkmenistan Hearne 44 H4 Texas, SW USA Hearst 35 C4 Ontario, S Canada Hebbronville 44 G6 Texas, SW USA Hebrides, Sea of the 91 B4 sea NW Scotland, United Kingdom Hebron 123 H6 S West Bank Heemskerk 84 C3 W Netherlands Heerde 84 E3 E Netherlands
Heerenveen 84 E2 N Netherlands
Heerhugowaard 84 D3 NW Netherlands
Heerlen 84 E6 SE Netherlands Hefa see Haifa Hefei 129 G4 E China Hegang 129 H1 NE China Heide 101 B2 N Germany Heidelberg 101 B6 SW Germany Heidenheim an der Brenz 101 C6 S Germany Heilbronn 101 B6 SW Germany Heilong Jiang see Amur Heiloo 84 C3 NW Netherlands Heimdal 83 B4 S Norway Hekimhan 121 E3 C Turkey Helena 47 D2 state capital Montana NW USA Helensburgh 91 D5 W Scotland United Kingdom Helensville 139 D2 North Island, New Zealand Helgoländer Bucht 101 B2 bay NW Germany Hellevoetsluis 84 C5 SW Netherlands Hellevoetsluis 84 C5 SW Netherla Hellin 99 E4 C Spain Hells Canyon 49 D3 valley Idaho/ Oregon, NW USA Helmand, Darya-ye 125 D6 A5 Afghanistan/Iran Helmond 84 E5 S Netherlands Helmsdale 91 E2 N Scotland, United Kingdom

Helmsley 93 E3 N England, United Kingdom

Helsingborg 83 C7 S Sweden

Helsinki 83 E5 ● S Finland

Helston 95 A6 SW England, Helston 95 Ao Sw England, United Kingdom Helvellyn 93 C3 ▲ NW England, United Kingdom Henderson 47 C7 Nevada, W USA Henderson 44 H3 Texas, SW USA Hengduan Shan 129 D5 ▲ Sw China Hungalo 24 El Shelband Hengelo 84 F4 E Netherlands Hengyang 129 F5 S China Heniches'k 109 F6 S Ukraine Henley-on-Thames 95 F3 C England, United Kingdom
Hennebont 97 B3 NW France
Herat 125 D5 W Afghanistan Heredia 55 E6 C Costa Rica Hereford 93 C6 W England, United Kingdom

Hereford 44 F2 Texas, SW USA

Herford 101 B4 NW Germany

Herk-de-Stad 84 D6 NF Belg

Herm 95 G6 island Channel Islands

Herma Ness 91 B5 headland Honolulu 51 B1 state capital O'ahu, Herma Ness 91 B5 headland
NE Scotland, United Kingdom
Hermansverk 83 B5 S Norway
Hermiston 49 C3 Oregon, NW USA
Hermit Islands 141 B1 island group
N Papua New Guinea
Hermon, Mount 123 H5 ▲ S Syria Hawaii, USA Honshu 133 G5 island SW Japan Hermosillo 53 B2 NW Mexico Herrera del Duque 99 C4 W Spain Herselt 84 D6 C Belgium Herstal 84 E7 E Belgium
Hessen 101 C5 state C Germany
Hessle 93 F4 N England, United Kingdom Hettinger 43 B3 North Dakota, N USA Hexham 93 D2 N England, United Kingdom

Hidalgo del Parral 53 D3 N Mexico Hida-sanmyaku 133 E5 A Honshū, S Japan Hienghène 141 G6 C New Caledonia High Atlas 70 C2 A C Morocco High Point 39 G3 North Carolina. SE USA
High Willhays 95 C5 ASW England, United Kingdom

High Wycombe 95 F3 SE England,
United Kingdom

Higüero, Punta 51 headland W Puerto Rico **Hiiumaa** 83 D6 island W Estonia **Hikurangi** 139 D2 North Island, New Zealand New Zealand Hildesheim 101 C4 N Germany Hill Bank 55 B1 N Belize Hillegom 84 C4 W Netherlands Hillsborough 89 E2 E Northern Ireland, United Kingdom Hilo 51 D3 Hawaii, USA, C Pacific Ocean
Hilversum 84 D4 C Netherlands
Himalayas 127 E2 ▲ S Asia
Himeji 133 E6 SW Japan Hims 123 B2 C Syria
Hinchinbrook Island 137 G2 island
Queensland, NE Australia Hinds 139 C6 SW New Zealand Hinds 139 C6 SW New Zealand
Hindu Kush 125 F4

▲ Afghanistan/Pakistan
Hinesville 39 G5 Georgia, SE USA
Hinnøya 83 C2 island C Norway
Hinthada 131 A3 SW Myanmar (Burma)
Hirfanlı Barajı 121 C3 ☒ C Turkey
Hirosaki 133 F3 C |apan
Hiroshima 133 D7 SW Japan
Hiroshima 133 D7 SW Japan
Hirsin 141 B3 SW Papua New Guinea Hisiu 141 B3 SW Papua New Guinea Hispaniola 57 F4 island Dominion Republic/Haiti Hitachi 133 G5 S Japan Hitra 83 B4 island S Norway Hjälmaren 83 C6 ⊗ C Sweden Hjørring 83 B6 N Denmark Hkakabo Razi 131 A1 ▲ Burma (Myanmar)/China **Hlukhiv** 109 E3 NE Ukraine Hlybokaye 109 C2 N Belarus Hoang Lien Son 131 C2 ▲ N Vietnam Hobart 137 G7 state capital Tasmania SE Australia Hobbs 44 F3 New Mexico SW USA Hobro 83 B6 N Denmark
Ho Chi Minh 131 C4 S Vietnam
Hocking River 40 F7 😂 Ohio, N USA Hodeida 123 B6 W Yemen Hódmezővásárhely 105 E8 SE Hungary Hodna, Chott El 112 D4 salt lake N Algeria
Hodonín 105 D6 SE Czech Republic
Hoeryong 133 C3 NE North Korea
Hof 101 D5 SE Germany Hofu 133 D7 SW Japan Hohenems 101 C7 W Austria Hohe Tauern 101 D8 M W Austria Hobbot 129 F3 N China Hokianga Harbour 139 C2 inlet SE Tasman Sea Hokitika 139 B6 South Island, New Zealand **Hokkaido** 133 F1 island NE Japan **Holbrook** 44 C2 Arizona, SW USA Holden 47 D5 Utah, W USA Holguín 57 D3 SE Cuba Hollabrunn 101 F6 NE Austria Holland see Netherlands Holly Springs 39 C4 Mississippi, S USA Hollywood 39 G8 Florida, SE USA Holman 33 G3 Victoria Island, Northwest Territories N Canada Holmsund 83 D4 N Sweden Holon 123 G6 C Israel Holstebro 83 B6 W Denmark Holt 95 H1 E England, United Kingdom Holycross 89 D5 S Ireland Holyhead 93 A4 NW Wales, United Kingdom

Holy Island 93 D1 island NE England,

United Kingdom Holyoke 37 E4 Massachusetts, NE USA

W Caribbean Sea

Hønefoss 83 B5 S Norway

Honey Lake 49 B6 @ California, W USA

Hong Kong 129 H6 S China Honiara 141 E3 ● C Solomon Islands Honiton 95 C5 SW England,

Hombori 72 D3 S Mali Homyel' 109 D3 SE Belarus

Hondo 44 G5 Texas, SW USA

Honduras 55 C3 ♦ republic

Central America Honduras, Gulf of 55 C2 gulf

Hong Gai 131 C2 N Vietnam

United Kingdom Honjo 133 F4 C Japan

Hondo 55 B1 & Central America

Hoogeveen 84 E3 NE Netherlands Hoogezand-Sappemeer 84 F2 NE Netherlands Hoorn 84 D3 NW Netherlands Hoover Dam 47 C7 dam Arizona/ Nevada, W USA Hopa 121 G2 NE Turkey Hope 33 D4 British Columbia, SW Canada Hope 50 E3 Alaska, USA Hopedale 35 F2 Newfoundland and Labrador, NE Canada Hopkinsville 39 D3 Kentucky, S USA Horasan 121 G3 NE Turkey Horki 109 D2 E Belarus Horley 95 F4 SE England, United Kingdom Horlivka 109 G5 E Ukraine Hormuz, Strait of 123 E4 strait Iran/Oman Iran/Oman Horn, Cape 65 B9 cape S Chile Horncastle 93 F5 E England, United Kingdom Hornsea 93 F4 E England, United Kingdom

Horoshiri-dake 133 G2 ▲ Hokkaidō, N Japan Horseleap 89 D4 C Ireland Horsham 137 F6 Victoria, SE Australia Horsham 95 F4 SE England, United Kingdom
Horst 84 E5 SE Netherlands
Horten 83 B5 S Norway
Horyn' 109 C4 S NW Ukraine Hosingen 84 E8 NE Luxembourg Hotan 129 B3 NW China Hotazel 76 C6 N South Africa Hoting 83 C4 C Sweden Hoting 83 C4 C Sweden
Hot Springs 39 B4 Arkansas, C USA
Houayxay 131 B2 N Laos
Houghton 40 C2 Michigan, N USA
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Keokuk 43 F5 Iowa, C USA Kepno 105 D4 C Poland Kerala 127 D7 state S India Kerch 109 G6 SE Ukraine Kerch Strait 109 G7 strait Black Sea/ Sea of Azov Kerema 141 B2 S Papua New Guinea Kerguelen 15 island C French Southern and Antarctic Territories Kerf 107 D6 W Greece Kerikeri 139 D1 North Island New Zealand E Tunisia Kerkrade 84 E6 SE Netherlands NE New Zealand Kerman 123 F3 C Iran Kermānshāh 123 C2 W Iran Keryrenia see Girne Kesennuma 133 G4 C Japan neswick 93 C3 NW England, United Kingdom Keszthely 105 D8 SW Hungary Ketchikan 50 F4 Revillagigedo Island, Alaska, USA Keswick 93 C3 NW England Kettering 95 F2 C England, Kewanee 40 B6 Illinois. N USA Keynsham 95 D4 SW England, Khabarovsk 118 H5 SE Russian Federation Khandwa 127 D4 C India Khanka, Lake 118 H5 @ China/ Russian Federation Khanthabouli 131 C3 S Laos Khanty-Mansiysk 118 D4 C Russian Federation
Khao Laem Reservoir 131 A3 W Thailand W Thailand
Kharagpur 127 G4 NE India
Kharkiv 109 F4 NE Ukraine
Khartoum 75 C2 ● C Sudan
Khartoum North 75 C2 C Sudan Khasavyurt 111 B9 SW Russian Federation Khash, Dasht-e 125 D6 desert SW Afghanistan Khashm el Girba 75 D2 E Sudan Khaskovo 107 F3 S Bulgaria Khatanga 143 E3 N Russian Federation Khorugh 125 G4 S Tajikistan Khouribga 70 C2 C Morocco Khowst 125 F5 E Afghanistan Khŭiand 125 F3 N Tajikistan Khulna 127 G4 SW Bangladesh Khust 109 B5 W Ukraine Khvov 123 C1 NW Iran Khyber Pass 127 C1 pass Afghanistan/Pakistan Kia 141 E2 N Solomon Islands Kidderminster 93 D6 C England United Kingdom

Kidlington 95 E3 C England,
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Kiel 101 C2 N Germany Kielce 105 E4 C Poland United Kingdom Kiffa 72 B3 S Mauritania Kigali 75 C6 ● C Rwanda Kigoma 75 B6 W Tanzania Kihei 51 C2 Maui, Hawaii, USA Kii-suido 133 E7 strait S Japan Kikinda 107 D1 N Serbia Kikwit 76 C2 W Dem. Rep. Congo Kendari 131 F7 Celebes C Indonesia Kīlauea Caldera 51 D3 crater Kenema 72 B5 SE Sierra Leone Hawaii, USA ▲ Mountain

 X Volcano

 River
 B Reservoir

Kilbaha 89 B5 W Ireland Kilbeggan 89 D4 C Ireland Kilchu 133 C4 NE North Korea Kilcogy 89 D3 N Ireland Kilcolgan 89 C4 W Ireland Kilcormac 89 D4 C Ireland Kildare 89 E4 E Ireland Kildorrery 89 C6 S Ireland
Kilimanjaro 75 D6 ₹ NE Tanzania
Kilis 121 E5 S Turkey Kilkee 89 B5 W Ireland Kilkeel 89 F3 S Northern Ireland, United Kingdom Kilkelly 89 C3 NW Ireland Kilkenny 89 D5 S Ireland Kilkinlea 89 B6 SW Ireland Kilkís 107 E4 N Greece Killagan 89 E1 N Northern Ireland, United Kingdom Killala 89 B3 NW Ireland Killala Bay 89 B3 inlet NW Ireland Killarney 89 B6 SW Ireland Killeany 89 B4 W Ireland Killeen 89 E3 S Northern Ireland United Kingdom Killeen 44 G4 Texas, SW USA Killimer 89 B5 W Ireland Killimor 89 C4 W Ireland Killorglin 89 B6 SW Ireland Killybegs 89 C2 NW Ireland Killyleagh 89 F3 E Northern Ireland, United Kingdom Kilmaine 89 B4 NW Ireland Kilmarnock 91 D6 W Scotland. United Kingdom

Kilmurvy 89 B4 W Ireland

Kilrea 89 E2 N Northern Ireland, Kilrea 89 E2 N Northern Ireland, United Kingdom Kilrush 89 B5 W Ireland Kilwa Kivinje 75 D7 SE Tanzania Kimbe 141 C2 E Papua New Guinea Kimberley 76 D6 C South Africa Kimberley 14 Edua 137 C2 plateau Western Australia Kimch'aek 133 C4 E North Korea Kinabalu, Gunung 131 E5 ▲ East Malaysia Kinbrace 91 D2 N Scotland United Kingdom

Kincaslough 89 C1 N Ireland Kinder Scout 93 D4 ▲ C England, United Kingdom

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Kippure 89 E4 ▲ E Ireland
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▲ Kazakhstan/Kyrgyzstan

Kiribati 141 J1 ◆ republic C Pacific Ocean

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Kırıkkale 121 D3 C Turkey Kirinyaga 75 D5 & C Kenya Kirishi 111 A4 NW Russian Federation Kiritimati 135 atoll E Kiribati Kiriwina Islands 141 C2 island group S Papua New Guinea

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Kirkcudbright 91 D7 S Scotland,
United Kingdom

Kirkenes 83 E1 N Norway Kirkland Lake 35 C5 Ontario, S Canada Kırklareli 120 A2 NW Turkey Kirkpatrick, Mount 142 C5 ▲ Antarctica Kirksville 43 F5 Missouri, C USA Kirkūk 123 C2 N Iraq Kirkwall 91 E1 NE Scotland, United Kingdom Kirkwood 43 G6 Missouri, C USA Kirov 111 C5 W Russian Federation

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Borneo, C Indonesia

Kaliningrad 83 E7 W Russian Federation

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O Dependent territory capital

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Kerch Strait 109 G7 strait Black Seal

Kerkenah, Îles de 112 E4 island group

Kerkyra see Corfu Kermadec Islands 135 island group

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Key Largo 39 G9 Key Largo, Florida, SE USA

United Kingdom Key West 39 G9 Florida Keys, Florida, SE USA

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Khaydarkan 125 G3 SW Kyrgyzstan Kherson 109 E6 S Ukraine Kheta 118 E3 🖨 N Russian Federation Khmel 'nyts'kyy 109 C5 W Ukraine Kholm 125 F4 N Afghanistan Khon Kaen 131 B3 E Thailand Khor 118 H5 SE Russian Federation

Kibangou 76 B2 SW Congo Kibombo 76 D2 E Dem. Rep. Congo

Kielder Water 93 C2 ⊗ N England, Kieler Bucht 101 C2 bay N Germany Kiev 109 D4 ● N Ukraine
Kiev Reservoir 109 D4 図 N Ukraine

Kīlauea 51 B1 Kaua'i, Hawaii, USA

Karskoye More see Kara Sea ◆ Country • Country capital

Karlovac 107 B1 C Croatia Karlovy Vary 105 A5 W Czech Republic

Karlskrona 83 C7 S Sweden Karlsruhe 101 B6 SW Germany

Karnataka 127 D6 state W India

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Karlstad 83 C5 C Sweden

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Kivu, Lake 76 D2 ⊗ Dem. Rep.
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Klang 131 B6 W Malaysia
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Knock 89 C3 NW Ireland
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Kongolo 76 D2 E Dem. Rep. Congo

Kongor 75 C4 SE Sudan Kongsberg 83 B5 S Norway Konin 105 D3 C Poland Kónitsa 107 D4 W Greece Konosha 111 B4 NW Russian Federation Konotop 109 E3 NE Ukraine Konstanz 101 B7 S Germany Konya 121 C4 C Turkey Kopaonik 107 D3 A S Serbia Koper 101 E9 SW Slovenia Köpetdag Gershi 125 C3 ▲ Iran/Turkmenistan Koppeh Dagh 123 E1

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Kunda 83 F5 NE Estonia

Kunene 76 B4 🔄 Angola/Namibia Kungsbacka 83 B6 S Sweden
Kungur 111 D5 NW Russian Federation
Kunlun Mountains 129 B3 ▲ NW China Kunming 129 E5 SW China Kunsan 133 B6 W South Korea Kununurra 137 D2 Western Australia Kuopio 83 F4 C Finland Kupang 131 F8 C Indonesia Kupiano 141 C3 S Papua New Guinea Kup"yans'k 109 G4 E Ukraine Kura 121 H2 A SW Asia Kurashiki 133 E6 SW Japan Kurdistan 121 H4 cultural region SW Asia Kŭrdzhali 107 F3 S Bulgaria Kure 133 D7 SW Japan Küre Dağları 121 D2 🚵 N Turkey Kurile İslands 118 I4 island group SE Russian Federation

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Krishna 127 E5 🕰 C India

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Archipelago, S Burma (Myanmar)

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Lancaster 49 C8 California, W USA

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Mountain range Mountain

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Lichtenfels 101 C5 SE Germany le Cannet 97 F6 SE France Lecce 103 F6 SE Italy Lechainá 107 D5 S Greece Lichtenvoorde 84 F4 E Netherlands Leduc 33 G6 Alberta, SW Canada Leech Lake 43 E2 ⊗ Minnesota, N USA Leeds 93 D4 N England, United Kingdom

LIDA Leek 84 F2 NF Netherlands Leek 93 D5 C England, United Kingdom Leer 101 B3 NW Germany Leeuwarden 84 E2 N Netherlands Leewarden 64 EZ N Netherlands Leeward Islands 57 K4 island group E West Indies Lefkáda 107 D5 island Ionian Islands, W Greece

Lefká Óri 107 E7 ▲ Crete, Greece

Legazpi City 131 F4 N Philippines Legnica 105 C4 SW Poland le Havre 97 C2 N France Leicester 93 E5 C England, United Kingdom

Leiden 84 C4 W Netherlands Leie 84 B6 😂 Belgium/France
Leighton Buzzard 95 F3 E England, Leignton Buzzara 95 F 5 England,
United Kingdom
Leinster 89 D5 cultural region E Ireland
Leinster, Mount 89 E5 ▲ SE Ireland
Leipzig 101 D4 E Germany
Leiria 99 A4 C Portugal
Leirvik 83 A5 S Norway Leixlip 89 E4 E Ireland Lek 84 D4 & SW Netherlands Leksand 83 C5 C Sweden
Lelystad 84 D3 C Netherlands le Mans 97 C3 NW France Lemesós see Limassol
Lemhi Range 47 C3 ▲ Idaho, NW USA
Lena 118 G3 ♣ NE Russian Federation Leningradskaya 142 D6 SW Russian Federation Leninogorsk 118 D5 E Kazakhstan Lenti 105 C8 SW Hungary Leoben 101 E7 C Austria Leominster 93 C6 W England, United Kingdom León 53 E4 C Mexico León 55 D4 NW Nicaragua León 99 C2 NW Spain Leone 51 W American Samoa Leonídio 107 E6 S Greece Lepe 99 B5 S Spain le Portel 97 D1 N France le Puy 97 D5 C France Léré 72 G4 SW Chad Lérida see Lleida Lerma 99 D2 N Spain Leros 107 G6 island Dodecanese, Greece Lerwick 91 B6 NE Scotland, United Kingdom Leshos 107 F5 island F Greece Leshan 129 E5 C China les Herbiers 97 B4 NW France Leskovac 107 D3 SE Serbia Lesotho 76 D6 ♦ monarchy S Africa les Sables-d'Olonne 97 B4 NW France Lesser Antilles 57 I5 island group E West Indies Lesser Caucasus 121 G2 SW Asia Lesser Sunda Islands 131 F8 island group C Indonesia Leszno 105 C4 C Poland Letchworth 95 F3 E England, United Kingdom Lethbridge 33 G7 Alberta, SW Canada Leti, Kepulauan 131 G8 island group E Indonesia

Letsôk-aw Kyun 131 A4 island Mergui Archipelago, S Burma (Myanmar) Letterkenny 89 D2 NW Ireland Leuven 84 C6 C Belgium Leuven 84 Co C Belgium Leuze-en-Hainaut 84 B7 SW Belgium Levanger 83 B4 C Norway Levelland 44 F3 Texas, SW USA Leverkusen 101 A5 W German Levice 105 D7 SW Slovakia
Levin 139 D4 North Island, New Zealand
Lewes 95 G4 SE England, United Kingdom
Lewes 37 D6 Delaware, NE USA
Lewis, Butt of 91 B2 headland NW Scotland, United Kingdom Lewis, Isle of 91 B2 island NW Scotland, United Kingdom

Lewis Range 47 C1 ▲ Montana, NW USA Lewiston 47 B2 Idaho, NW USA Lewiston 37 F3 Maine, NE USA Lewistown 47 D2 Montana, NW USA Lexington 39 E2 Kentucky, S USA Lexington 43 C5 Nebraska, C USA

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Krasnoyarsk 118 E5 S Russian Fede Krasnytsav 105 G4 SE Poland Krasnyy Kut 111 C7 W Russian Federation Krasnyy Luch 109 G5 E Ukraine Kremenchuk 109 E5 NE Ukraine Kremenchuk Reservoir 109 D5

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C Ukraine

Lidköping 83 C6 S Sweden Lidzbark Warmiński 105 E2 N Poland Liechtenstein 101 C8 ◆ monarchy C Europe Liège 84 D7 E Belgium Lienz 101 D8 W Austria Liepāja 83 E6 W Latvia Liezen 101 E7 C Austria Liffey 89 E5 😂 E Ireland Lifford 89 D2 NW Ireland Littor 48 D2 NW Ireland
Lifou 141 G6 island Îles Loyauté,
E New Caledonia
Ligger Bay 95 45 bay SW England,
United Kingdom
Lighthouse Reef 55 C1 reef E Belize
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Lillehammer 83 B5 S Norway
Lillestrøm 83 B5 S Norway Lilongwe 76 E4 ● W Malawi Lima 63 B5 ● W Peru Limanowa 105 E5 S Poland Limassol 112 C6 SW Cyprus Limavady 89 E1 NW Northern Ireland, United Kingdom
Limerick 89 C5 SW Ireland Límnos 107 F4 island E Greece Limoges 97 C4 C France Limón 55 F6 E Costa Rica Limón 55 D2 NE Honduras Limon 47 F5 Colorado, C USA Limousin 97 C5 cultural region C France Europe Limoux 97 D7 S France Limpopo 76 E5 😂 S Africa Linares 65 A6 C Chile Linares 53 E3 NE Mexico Linares 99 D5 S Spain Lincoln 93 E5 E England, United Kingdom
Lincoln 37 G2 Maine, NE USA
Lincoln 43 D5 state capital Nebraska, CUSA Lincoln Edge 93 E4 ridge E England, United Kingdom

Lincoln Sea 143 B4 sea Arctic Ocean Linden 63 E2 E Guyana Lindi 75 E7 SE Tanzania Líndos 107 G6 Rhodes, Dodecanese, Greece Dodecanese, Greece Line Islands 135 island group E Kiribati Lingen 101 B3 NW Germany Lingga, Kepulauan 131 C6 island group W Indonesia Linköping 83 C6 S Sweden Linnhe, Loch 91 C5 inlet W Scotland, Linnhe, Loch 91 C5 mlet W Scotland, United Kingdom Linton 43 C2 North Dakota, N USA Linz 101 E7 N Austria Lion, Gulf of 97 D7 gulf S France Lipari 103 D7 island Acolian Islands, Italy Lipetsk 111 B6 W Russian Federation Lira 75 C5 N Uganda
Lisala 76 C1 N Dem. Rep. Congo
Lisboa see Lisbon
Lisbon 99 A4 ● W Portugal Lisburn 89 E2 E Northern Ireland, Lisburn 89 £2 E Northern Ireland, United Kingdom Lisdoonvarna 89 £5 W Ireland Lisieux 97 £2 N France Liski 171 £46 W Russian Federation Lisnaskea 89 £23 W Northern Ireland, United Kingdom
Lisse 84 C4 W Netherlands
Listowel 89 B5 SW Ireland
Litang 129 D5 C China Lithgow 137 G6 New South Wales SE Australia

Lithuania 83 E7 ♦ republic NE Europe

Little Alföld 105 D7 plain Hungary/Slovakia
Little Andaman 127 H5 island Andaman Islands, SE India Little Barrier Island 139 D2 island N New Zealand Little Cayman 57 C4 island E Cayman Islands Little Colorado River 47 D7 😝 Arizona. SW USA Little Falls 43 E3 Minnesota, N USA Littlefield 44 F3 Texas, SW USA Littlehampton 95 F5 SE England, United Kingdom
Little Inagua 57 E3 island S Bahamas
Little Minch, The 91 B3 strait
NW Scotland, United Kingdom Little Missouri River 43 A3 & NW USA Little Nicobar 127 H6 island Nicoba Islands, SE India Little Ouse 95 G2 ♣ E England United Kingdom

Little Rock 39 B4 state capital Arkansas, Little Saint Bernard Pass 97 F5 pass France/Italy
Little Sandy Desert 137 B4 desert Western Australia Western Australia

Littleton 47 F5 Colorado, C USA

Littleton 37 F3 New Hampshire, NE USA

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Livingston 47 D3 Montana, NW USA
Livingston 44 H4 Texas, SW USA
Livingstone 76 D4 S Zambia N Papua New Guinea Lorient 97 B3 NW France Lorn, Firth of 91 B5 inlet W Scotland, Livingstone Mountains 139 A7 South Island, New Zealand
Livingston, Lake 44 H4 Texas, United Kingdom Lörrach 101 B7 S Germany Lorraine 97 F2 cultural region SW USA NE France Europe SW USA
Livojoki 83 E3 😝 C Finland
Livonia 40 E5 Michigan, N USA
Livorno 103 B3 C Italy Los Alamos 44 D2 New Mexico, SW USA Los Amates 55 B3 E Guatemala Los Ángeles 65 A6 C Chile Lizard Point 95 A6 headland SW England, United Kingdom Ljubljana 101 E8 ● C Slovenia Los Angeles 49 C8 California, W USA Lošinj 107 A2 island W Croatia Los Mochis 53 C3 C Mexico Ljungby 83 C6 S Sweden
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Los Testigos, Islas 57 J7 island

NE Venezuela

Lot 97 C5 cultural region C France Europe Llandovery 93 B6 S Wales, United Kingdom Llandrindod Wells 93 C6 E Wales, United Kingdom

Llandudno 93 B4 N Wales,
United Kingdom

Llanes 99 D1 N Spain Lot 97 C6 S S France Lotagipi Swamp 75 D4 wetland Kenya/Sudan Louangphabang 131 B3 N Laos Loudéac 97 B2 NW France Llanos 63 C2 physical region
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Lleyn Peninsula 93 A5 peninsula Loughborough 93 E5 C England, United Kingdom Loughrea 89 C4 W Ireland NW Wales, United Kingdom Louisburgh 89 B3 NW Ireland Llucmajor 99 H4 Majorca, Spain Lobatse 76 D6 SE Botswana Löbau 101 E4 E Germany Louisiade Archipelago 141 D3 island group SE Papua New Guinea Louisiana 39 A5 ♦ state S USA Lobito 76 B4 W Angola
Locarno 101 B8 S Switzerland
Lochboisdale 91 A4 NW Scotland, Louisville 39 E2 Kentucky, S USA Louisville Ridge 14 undersea feature S Pacific Ocean

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Louth 89 E3 NE Ireland
Louth 93 F4 E England, United Kingdom Lochdon 91 C5 W Scotland. United Kingdom
Lochem 84 E4 E Netherlands Lochgilphead 91 C5 W Scotland. Loutrá 107 F4 N Greece Loutra 107 E4 N Greece
Louvain-la Neuve 84 C7 C Belgium
Louviers 97 D2 N France
Loveland 47 F5 Colorado, C USA United Kingdom

Lochinver 91 C2 N Scotland, United Kingdom Lochmaddy 91 B3 NW Scotland, Lovelock 47 A5 Nevada, W USA Lovosice 105 B5 NW Czech Republic United Kingdom

Lochnagar 91 E4 ▲ C Scotland,
United Kingdom

Lochy, Loch 91 C4 ⊗ N Scotland, Lóvua 76 C3 NE Angola Lowell 47 C2 Idaho, NW USA Lowell 37 F4 Massachusetts, NE USA Lower California 53 B3 peninsula United Kingdom Lockerbie 91 E7 S Scotland, NW Mexico Lower Hutt 139 D5 North Island, New Zealand Lower Lough Erne 89 D2 🚳 United Kingdom

Lockport 37 C3 New York, NE USA Lodja 76 C2 C Dem. Rep. Congo Lodwar 75 D5 NW Kenya SW Northern Ireland United Kingdom Lodz 105 E4 C Poland Lofoten 83 C2 island group C Norway Lower Red Lake 43 E2 @ Minne N USA Lower Tunguska 118 E4 🕰 Logan 47 D4 Utah, W USA N Russian Federation

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S New Caledonia
Lualaba 76 D2 😂 SE Dem. Rep. Congo Logrofio 99 E2 N Spain Loibl Pass 101 E8 pass Austria/Slovenia Loire 97 C3 😂 C France Luanda 76 B3 • NW Angola Luangwa 76 E4 😂 Mozambique/Zambia Luangwa 76 D4 C Zambia Loia 63 B4 S Ecuador Lokia o5 B4 S Ecuador Lokiaung 75 D4 NW Kenya Lokoja 72 E5 C Nigeria Lola, Mount 49 B6 ▲ California, W USA Luarca 99 C1 N Spain Lolland 83 B7 island S Denmark Lom 107 E2 NW Bulgaria Lomami 76 D2 😝 C Dem. Rep. Congo Lubaczów 105 G5 SE Poland Lubań 105 B4 SW Poland Lubango 76 B4 SW Angola Lomas de Zamora 65 C5 E Argentina Lombardia see Lombardy Lombardy 103 C2 cultural region N Italy Lombok, Pulau 131 E8 island Nusa Lubao 76 D2 C Dem. Rep. Congo Lübben 101 E4 E Germany Lübbenau 101 E4 E German Lubbock 44 F3 Texas, SW USA Tenggara, C Indonesia

Lomé 72 D5 ● S Togo

Lomela 76 C2 C Dem. Rep. Congo Lübeck 101 C2 N German Lubelska, Wyżyna 105 F4 plateau SE Poland Lubin 105 C4 SW Poland Lommel 84 D6 N Belgium
Lomond, Loch 91 D5 ⊗ C Scotland,
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Lomonosov Ridge 143 C4 undersea Lublin 105 F4 E Poland Lubliniec 105 D5 S Poland Lubny 109 E4 NE Ukraine feature Arctic Ocean
Lompoc 49 C8 California, W USA
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Lucano, Appennino 103 E6 Ac S Italy
Lucapa 76 C3 NE Angola
Lucca 103 C3 C Italy
Luce Bay 91 C7 inlet SW Scotland,
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Lucena 131 F4 Luzon, N Philippines
Lucena 190 P5 S S Sain Loncoche 65 A6 C Chile London 95 G4 ● SE England, United Kingdom London 35 C6 Ontario, S Canada London 39 F3 Kentucky, S USA Londonderry 89 D2 NW Northern Lucena 99 D5 S Spain Ireland, United Kingdom Londonderry, Cape 137 C1 cape
Western Australia
Londrina 63 F7 S Brazil Lučenec 105 F7 C Slovakia Lucknow 127 E3 N India Luda Kamchiya 107 F3 😝 E Bulgaria Lone Pine 49 C7 California, W USA Lüderitz 76 B6 SW Namibia Long Bay 39 H4 bay North Carolina/ South Carolina, E USA Long Beach 49 C9 California, W USA Ludhiana 127 D2 N India Ludington 40 D4 Michigan, N USA Ludlow 93 C6 W England, Long Eaton 93 E5 C England, United Kingdom Longford 89 D4 C Ireland United Kingdom Ludvika 83 C5 C Sweden
Ludwigsburg 101 B6 SW Germany
Ludwigsfelde 101 D4 NE Germany Long Island 57 E2 island C Bahamas Long Island 37 E5 island New York, NE USA Ludwigshafen 101 B6 W Germany Ludwigslust 101 C3 N Germany Ludza 83 F6 E Latvia Long Island Sound 37 F5 sound NE USA Longlac 35 B4 Ontario, S Canada Longmont 47 F5 Colorado, C USA Longreach 137 G3 Queensland, Luena 76 C3 E Angola Lufira 76 D3 ♣ SE Dem. Rep. Congo Lufkin 44 I4 Texas, SW USA Luga 111 A4 NW Russian Federation E Australia

Long Strait 118 H1 strait

NE Russian Federation

Longview 44 H3 Texas, SW USA

Longview 49 B3 Washington, NW USA

Longvan 129 G5 SE China

Longvearbyen 143 C5 O Newblard

Lons-le-Samier 97 E4 Ferance E Australia Lugano 101 B8 S Switzerland Luganville 141 G4 C Vanuatu Lugenda, Rio 76 F4 😝 N Mozambique Lugnaquillia Mountain 89 E5

▲ E Ireland

Lugo 99 B1 NW Spain

Lugoj 109 A6 W Romania

Luhans'k 109 G5 E Ukraine Lons-le-Saunier 97 E4 E France Loop Head 89 A5 promontory W Ireland Lop Nur 129 C3 seasonal lake NW China Lukenie 76 C2 😂 C Dem. Rep. Congo ♦ Dependent territory ◆ Administrative region ◆ Country • Country capital

Łuków 105 F4 E Poland Lukuga 76 D3 ♣ SE Dem. Rep. Congo Luleå 83 D3 N Sweden Luleälven 83 D3 & N Sweden Lulimba 76 D2 E Dem. Rep. Congo Lulonga 76 C1 A NW Dem. Rep. Congo Luma 51 E American Samoa Lumberton 39 H4 North Carolina, SE USA Lumbo 76 F4 NE Mozambique Lumi 141 A1 NW Papua New Guinea Lumsden 139 B7 South Island, New Zealand Lund 83 C7 S Sweden Lundy 95 B4 island SW England, United Kingdom Lüneburg 101 C3 N Germany Lungué-Bungo 76 CA A Angola/Zambia Luninyets 109 C3 SW Belarus Lunteren 84 D4 C Netherlands Luoyang 129 F4 C China Lurgan 89 E2 S Northern Ireland, United Kingdom Lúrio 76 F4 NE Mozambique Lúrio, Rio 76 F4 AV NE Mozambique Lusaka 76 D4

SE Zambia

Lut, Dasht-e 123 F3 desert E Iran Luti 141 E2 NW Solomon Islands **Luton** 95 F3 E England, United Kingdom **Łutselk'e** 33 G5 Northwest Territories, W Canada Luts'k 109 C4 NW Ukraine Lutzow-Holm Bay 142 D3 bay Antarctica Lutquq 75 E4 SW Somalia Luwego 75 D7 ₷ S Tanzania Luxembourg 84 E9

S Luxembourg Luxembourg 84 E8

monarchy NW Europe
Luxor 70 J3 E Egypt
Luza 111 C4 NW Russian Federation
Luzern 101 B8 C Switzerland
Luzon 131 F3 island N Philippines Luzon Strait 131 F3 strait
Philippines/Taiwan
L'viv 109 B4 W Ukraine Lycksele 83 D3 N Sweden Lyepyel' 109 D2 N Belarus Lyme Bay 95 C5 bay S England, United Kingdom

Lyme Regis 95 D5 S England,
United Kingdom

Lymington 95 E5 S England, United Kingdom
Lynchburg 39 G2 Virginia, NE USA
Lynn 37 F4 Massachusetts, NE USA Lynn Lake 33 H6 Manitoba C Canada Lynton 95 C4 SW England, United Kingdom Lyon 97 E5 E France Lysychans'k 109 G4 E Ukraine Lytham St Anne's 93 C4 NW England, United Kingdom Lyttelton 139 C6 South Island. New Zealand M Maamturk Mountains 89 B4 ▲ W Ireland

Maaseik 84 E6 NE Belgium Maastricht 84 F6 SE Netherlands

Mablethorpe 93 F4 E England, United Kingdom Macao 129 G6 S China Macapá 63 F3 N Brazil Macclesfield 93 D5 C England, United Kingdom United Kingdom

Macdonnell Ranges 137 D3 An Northern
Territory, C Australia

Macduff 91 F3 NE Scotland, United Kingdom Macedonia 107 D4 ♦ republic SE Europe Maceió 63 I5 E Brazil Macgillycuddy's Reeks 89 B6 A SW Ireland Machala 63 A4 SW Ecuador Machanga 76 E5 E Mozambique Machilipatnam 127 E5 E India Machynlleth 93 B6 C Wales, United Kingdom Mackay 137 G3 Queensland, NE Australia Mackay, Lake 137 D3 salt lake Northern Territory/Western Australia Mackenzie 33 F4 😝 Northwest Territories, NW Canada Mackenzie Bay 142 E4 bay Antarctica Mackenzie Mountains 33 E4 ▲ Northwest Territories, NW Canada Macleod, Lake 137 A4 ⊗ Western Australia
Macomb 40 B6 Illinois, N USA Macomer 103 A6 Sardinia, Italy Mâcon 97 E4 C France
Macon 39 F5 Georgia, SE USA
Macon 43 F6 Missouri, C USA
Macroom 89 B6 SW Ireland Macuspana 53 H5 SE Mexico Ma'daba 123 A2 NW Jordan Madagascar 76 G5 ♦ republic W Indian Ocean

Madang 141 B2 N Papua New Guinea

Made 84 C5 S Netherlands Madeira, Rio 63 F4 ♣ Bolivia/Brazil Madeleine, Îles de la 35 F4 island group Québec, E Canada Madeline 49 C5 California, W USA Madera 49 C7 California, W USA Madhya Pradesh 127 E4 state C India Madison 43 D4 South Dakota, N USA Madison 40 B4 state capital Wiso

O Dependent territory capital

Mountain range

Malheur Lake 49 C4 @ Oregon, NW USA Madisonville 39 D2 Kentucky, S USA Madiun 131 D8 C Indonesia Madras see Chennai Malheur River 49 C4 😂 Oregon, NW USA

Mali 72 D3 ◆ republic W Africa

Mali Kyun 131 A4 island Mergui

Archipelago, S Burma (Myanmar)

Malin 89 D1 NW Ireland Madre de Dios. Río 65 A 1 A Bolivia/Peru

Madre del Sur, Sierra 53 F5 ▲ S Mexico Madre, Laguna 53 F3 lagoon NE Mexico Madre, Laguna 44 H6 lagoon Texas, SW USA Madre Occidental, Sierra 53 C3 Malin 89 D1 NW Ireland
Malindi 75 E6 SE Kenya
Malin Head 89 D1 headland NW Ireland
Mallaig 91 C4 N Scotland,
United Kingdom
Mallawi 70 13 C Egypt
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A C Mexico

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Magerøya 83 D1 island N Norway W England United Kingdon Wamberamo, Sungai 131 IT 🚑
Papua, E Indonesia
Mamonovo 83 D7 W Russian Federation Maggiore, Lake 103 B1 Italy/Switzerland

Maghera 89 E2 C Northern Ireland, Mamoré, Rio 65 B1 & Bolivia/Brazil Mamou 72 B4 W Guinea

Mamoudzou 76 G4 O C Mayotte United Kingdom Maglie 103 F6 SE Italy Mamuno 76 C5 W Botswana Magna 47 D5 Utah, W USA Magnitogorsk 118 C4 C Russian Federation Manacor 99 H4 Spain Manado 131 F6 Celebes, C Indonesia Managua 55 D5 ● W Nicaragua Managua, Lake 55 D4 ⊚ W Nicaragua Manakara 76 G5 SE Madagascar Manama 123 D4 ● N Bahrain Magnolia 39 B4 Arkansas, C USA Magnolia 39 B4 Arkansas, C USA Magta' Lahjar 72 B3 SW Mauritania Magtymguly 125 C3 W Turkmenistan Mahajanga 76 G4 NW Madagascar Mahakam, Sungai 131 E6 🚱 Borneo, Mananjary 76 G5 SE Madagascar Manapouri, Lake 139 A7 ⊗ South Island, New Zealand Manas, Gora 125 F2 C Indonesia

Mahalapye 76 D5 SE Botswana

Mahanadi 127 F4 😝 E India ▲ Kyrgyzstan/Uzbekistan

Manau 141 C2 S Papua New Guinea

Manaus 63 E4 NW Brazil Mahanadi 12/14 😂 E. India Maharashtra 127 D5 state W India Mahbubnagar 127 D5 C India Mahia Peninsula 139 E4 peninsula North Manavgat 121 C5 SW Turkey Island, New Zealand

Mahilyow 109 D2 E Belarus Manbij 123 B1 N Syria Manchester 93 D4 NW England, Mahmud-e Raqi 125 F5 NE Afghanistan Mahón 99 H3 Minorca, E Spain Maidenhead 95 F3 S England, United Kingdom Manchester 37 F3 New Hampshire, Mandalay 131 A2 C Myanmar (Burma) United Kingdom

Maidens, The 89 F2 island grout Mandan 43 B2 North Dakota, N USA Mand, Rud-e 123 D3 ♣ S Iran Mandurah 137 B5 Western Australia E Northern Ireland, United Kingdom **Maidstone** 95 G4 SE England, United Kingdom

Maiduguri 72 G4 NE Nigeria

Main 101 C5 ♣ C Germany

Mai-Ndombe, Lac 76 C2 ⊗ W Dem. Manduria 103 F6 SE Italy Mandya 127 D6 C India Manfredonia 103 E5 SE Italy Mangai 76 C2 W Dem. Rep. Congo Mai-Ndombe, Lac 76 C2 ⊕ W Dem. Rep. Cong Maine 97 C2 cultural region NW France Maine 37 F2 ⊕ state NE USA Maine, Gulf of 37 G3 gulf NE USA Mainland 91 E1 island N Scotland, United Kingdom Mainland 91 A6 island NE Scotland, Libited Vinedom. Mangalmé 72 H4 SE Chad Mangalore 127 D6 W India Mangerton Mountain 89 B6 ▲ SW Ireland Mangoky 76 F5 A W Madagascar Manhattan 43 D6 Kansas, C USA Manicouagan, Réservoir 35 E4 United Kingdom

Mainz 101 B5 SW Germany

Maitri 142 C3 Indian research station Antarctica Manisa 120 A3 W Turkey Maizhokunggar 129 C4 W China Majorca 99 H4 island E Spain Makarov Basin 143 C4 undersea feature Manistee River 40 D4 😝 Michigan, N USA Manitoba 33 H6 ◆ province S Canada Manitoba, Lake 33 H6 ⊗ Manitoba, Arctic Ocean

Makassar 131 E7 Celebes, C Indonesia

Makassar Straits 131 E7 strait S Canada

Manitoulin Island 35 C5 island Ontario, C.Indonesia S Canada Makay 76 G5 ▲ SW Madagascar Makeni 72 B4 C Sierra Leone Makhachkala 111 B9 Manizales 63 B2 W Colombia Manjimup 137 B6 Western Australia Mankato 43 E3 Minnesota, N USA Manlleu 99 G2 NE Spain Manmad 127 D4 W India Mannar 127 E7 NW Sri Lanka SW Russian Federation Makiyivka 109 G5 E Ukraine Makkah see Mecca Mannar, Gulf of 127 D8 gulf Makkovik 35 G2 Newfoundland and Labrador, NE Canada **Makó** 105 F8 SE Hungary India/Sri Lanka

Mannheim 101 B6 SW Germany Makoua 76 B2 C Congo Manokwari 131 H6 E Indonesia Makran Coast 123 F4 coastal region Manono 76 D3 SE Dem. Rep. Congo Manorhamilton 89 C3 NW Ireland Manosque 97 E6 SE France Mansa 76 D3 N Zambia SE Iran

Makrany 109 B3 SW Belarus Makurdi 72 F5 C Nigeria

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Malacca, Strait of 131 B6 strait Mansel Island 33 14 island Nunavut, NE Canada Mansfield 93 E5 C England, Indonesia/Malaysia

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Mansfield 37 C4 Pennsylvania, Málaga 99 D6 S Spain Malahide 89 E4 E Ireland Malaita 141 F3 island N Solomon Islands Malakal 75 C3 S Sudan NE USA Mantova 103 C2 NW Italy Manua Islands 51 island group E American Samoa Malang 131 D8 Java, C Indonesia Malanje 76 B3 NW Angola Mälaren 83 D5 @ C Sweden Manurewa 139 D2 North Island, New Zealand Manus Island 141 B1 island Mälaren 83 D5 ⊗ Cowcac.

Mälaren 83 D5 ⊗ Cowcac.

Malatya 121 E4 SE Turkey

**republic S Africa

**republic S Africa N Papua New Guinea
Manzanares 99 D4 C Spain
Manzanillo 57 D3 E Cuba
Manzanillo 53 D5 SW Mexico Malawi 76 E4 ◆ republic S Africa Malay Peninsula 131 B5 peninsu Malaysia/Thailand Malaysia 131 C5 ♦ monarchy SE Asia Malbork 105 E2 N Poland Malchin 101 D2 N Germany Manzhouli 129 F1 N China Mao v. 2 G3 w Chad
Maoke, Pegunungan 13117 ♣
Papua, E Indonesia
Maoming 129 F6 S China
Maputo 76 E6 ● S Mozambique
Maraa 141 A6 W French Polynesia Malden 43 G7 Missouri, C.USA Malden Island 135 atoll E Kiribati Maldives 127 C9 ◆ republic N Indian Ocean Male 127 C8 ● C Maldives Marahá 63 G4 NE Brazil Malekula 141 G5 island W Vanuatu Maracaibo 63 C1 NW Venezuela ▲ Mountain 🛣 Volcano 🚙 River 🐵 Lake 🖾 Reservoir

United Kingdom

Liuzhou 129 F5 S China Liverpool 35 F5 Nova Scotia, SE Canada

Liverpool 93 C4 NW England,

Maracaibo, Lake 63 B2 inlet NW Venezuela Maradah 70 G3 N Libya Maradi 72 F3 S Niger Maragheh 123 C1 NW Iran Marajó, Baía de 63 G3 bay N Brazil Marajó, Ilha de 63 F3 island N Brazil Maranhão 63 G4 state E Brazil Marañón, Río 63 B4 🐼 N Peru Marathon 35 B4 Ontario, S Canada Marathon 44 E4 Texas, SW USA Maraza 12112 E Azerbaijan Marbella 99 D6 S Spain Marble Bar 137 B3 Western Australia Marburg an der Lahn 101 B5 W Germany March 95 G2 E England, United Kingdom

Marche 97 D4 cultural region C France

Marche-en-Famenne 84 D8 SE Belgium Mar Chiquita, Laguna 65 B5 $\, \otimes \,$ C Argentina

Marcy, Mount 37 E3 ▲ New York, NE USA Mardan 127 C1 N Pakistan Mar del Plata 65 C6 E Argentina Mardin 121 F4 SE Turkey Maré 141 G6 island Îles Lovanté E New Caledonia Mareeba 137 G2 Queensland, NE Australia Maree, Loch 91 C3 ⊗ N Scotland. United Kingdom

Marfa 44 E4 Texas, SW USA Margarita, Isla de 63 D1 island N Venezuela Margate 95 H4 SE England, United Kingdom

Margherita, Lake 75 D4 ⊗ SW Ethiopia

Margow, Dasht-e 125 D6 desert SW Afghanistan Mari 141 A3 SW Papua New Guinea María Cleofas, Isla 53 C5 island C Mexico Maria Island 137 G7 island Tasmania, SF Australia SE Australia María Madre, Isla 53 C4 island C Mexico María Magdalena, Isla 53 C4 island C Mexic Mariana Islands 15 island group Guam/ Northern Mariana Islands Mariana Trench 15 undersea feature W Pacific Ocean Mariánské Lázně 105 A5 W Czech Republic Maribor 101 F8 NE Slovenia Maridi 75 B4 SW Sudan Marie Byrd Land 142 B5 physical region Antarctica Marie-Galante 57 K5 island SE Guadeloupe

Mariental 76 C6 SW Namibia Mariestad 83 C6 S Sweden Marietta 39 E4 Georgia, SE USA Marietta 40 F7 Ohio, N USA Marília 63 F7 S Brazil Marín 99 B2 NW Spain Maringá 63 F7 S Brazil Marion 40 B8 Illinois, N USA Marion 43 F4 Iowa C USA Marion 40 E6 Ohio, N USA Mariscal Estigarribia 65 C3 NW Paraguay Maritsa 107 F3 ♣ SW Europe Mariupol' 109 G5 SE Ukraine Marka 75 F5 S Somalia Market Harborough 93 E6 C England, United Kingdom

Markham, Mount 142 C5 ▲ Antarctica

Markounda 72 H5 NW Central African Republic

Marktredwitz 101 D5 E Germany Marmande 97 C5 SW France Marmara, Sea of 120 A2 sea NW Turkey Marmaris 120 A5 SW Turkey Marne 97 E2 cultural region N France Europe
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Otaki 139 D5 North Island, New Zealand
Otaru 133 F2 NE Japan Otavi 76 B5 N Namibia

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United Kingdom

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NW Scotland, United Kingdom Outes 99 B1 NW Spain
Out Skerries 91 B6 island group
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NE New Caledonia

Ouyen 137 F6 Victoria, SE Australia

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Owens Lake 49 D7 salt flat California, W USA
Owen Stanley Range 141 B3

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Owerri 72 F5 S Nigeria

Owyhee River 49 D4 😂 Idaho/Oregon, NW USA

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Ozark Plateau 43 E7 plain Arkansas/ Missouri C USA Ozarks, Lake of the 43 F6 Missouri,

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Pabna 127 G3 W Bangladesh
Pachuca 53 F5 C Mexico
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SW USA Paisley 91 D6 W Scotland, United Kingdom País Valenciano 99 F3 cultural region

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Palmerston North 139 D4 North Island, New Zealand
Palmi 103 E8 SW Italy
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Panama City 55 H6 ● C Panama

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Papeete 141 A5 O W French Polynesia

Papillion 43 D5 Nebraska, CUSA

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Parma 103 C3 N Italy
Parnaíba 63 H4 E Brazil Pärnu 83 E6 SW Estonia

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Parrett 95 D4 😂 SW England,

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Parsons 43 E7 Kansas, C USA
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Pembroke Dock 93 A7 SW Wales, United Kingdom

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Pend Oreille, Lake 47 B1

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Penn Hills 37 B5 Pennsylvania, NE USA
Pennine Alps 101 A8 ▲ Italy/Switzerland
Pennines 93 D3 ▲ N England,
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Pensacola 39 D6 Florida, SE USA Pentecost 141 H4 island C Vanuatu Pentland Firth 91 E1 strait N Scotland, United Kingdom
Pentland Hills 91 E6 hill range S Scotland, United Kingdom Pen v Fan 93 B7 ▲ SE Wales, United Kingdom

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Peto 53 H4 SE Mexico
Petrich 107 E4 SW Bulgaria Petrodvorets 111 A4 NW Russian Federation
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Puerto Rico 51 US ♦ C West Indies ▲ Mountain 🛣 Volcano 🗻 River ⊗ Lake

Póvoa de Varzim 99 B2 NW Portugal

Puerto San Iulián 65 B8 SE Argentina Puerto Suárez 65 C2 E Bolivia Puerto Vallarta 53 D5 SW Mexico Puerto Varas 65 A7 C Chile Puerto Viejo 55 E5 NE Costa Rica Puget Sound 49 B2 sound Washington NW USA Pukaki Lake 139 R6 @ SW New Zealand Pukatik, Lake 139 B6 ⊚ SW New Zea Pukatikei, Maunga 141 D6 ≩ Easter Island, Chile Pukeh'ong 133 B4 E North Korea Pukekohe 139 D3 North Island, New Zealand Pula 107 A2 NW Croatia Pulaski 39 G2 Virginia, NE USA
Puławy 105 F4 E Poland
Pullman 49 D2 Washington, NW USA Pułtusk 105 F3 C Poland Pune 127 C5 W India Punjab 127 D2 cultural region India/Pakistan Puno 63 C6 SF Peru Punta Alta 65 B6 E Argentina Punta Arenas 65 A9 S Chile Punta Gorda 55 B2 SE Belize Punta Gorda 55 E5 SE Nicaragua Puntarenas 55 E6 W Costa Rica Puntland 75 F3 cultural region Puri 127 F5 E India Purmerend 84 D3 C Netherlands Purus, Rio 63 D4 & Brazil/Peru Pusan 133 C6 SE South Korea Püspökladány 105 F7 E Hungary Putney 37 E3 Vermont, NE USA Putorana Mountains 118 E3 N Russian Federation Putumayo, Río 63 C4 ♣ NW South America
Pu'u 'Ula'ula 51 C2 ▲ Maui, Hawaii USA Pvatigorsk 111 A8 Pyrenees 99 F2 SW Europe Pyrgos 107 D6 S Greece Pyrzyce 105 B3 NW Poland Oamdo 129 D4 China Qattara Depression 70 I3 desert NW Egypt Qazvin 123 D2 N Iran Qilian Shan 129 D3 A N China Qina 70 J3 E Egypt Qingdao 129 G3 E China Qinghai Hu 129 D3 ⊗ C China Qinhuangdao 129 G3 E China Qinzhou 129 F6 S China Qiqihar 129 G2 NE China Oira 129 B3 NW China Oitai 129 C2 NW China Qital 129 C2 NW China Qizilrabot 125 H4 SE Tajikistan Qom 123 D2 N Iran Qo'ng'irot 125 D2 NW Uzbekistan Qo'qon 125 G3 E Uzbekistan Quang Ngai 131 D3 C Vietnam Ouanzhou 129 G5 SE China S Canada Quarles, Pegunungan 131 E7

▲ Sulawesi, C Indonesia

Quartu Sant' Elena 103 A6 Sardegna, Italy Quba 121 I2 N Azerbaijan

Punta, Cerro de 51 ▲ C Puerto Rico NE Somalia

Pupuya, Nevado 65 A2 ▲ W Bolivia Putrajaya 131 B6 • Peninsular Malaysia Puttalam 127 E7 W Sri Lanka Puttgarden 101 C2 N Germany Hawaii, USA

Pu'uwai 51 A1 Ni'ihau, Hawaii, USA

Pwllheli 93 B5 NW Wales, United Kingdom SW Russian Federation

Pyay 131 A3 C Myanmar (Burma)

Pyongyang 133 A5 ● SW North Korea

Pyramid Lake 47 A5 ⊗ Nevada, W USA Oaidam Pendi 129 D3 basin C China Qal'aikhum 125 G3 S Tajikistan Qalat 125 F6 S Afghanistan Qal'eh-ye Now 125 E4 NW Afghanistan Qarokul 125 G3 E Tajikistan Qarshi 125 G3 E Uzbekistan Qarshi 125 E3 S Uzbekistan Qasr al Farafirah 70 I3 W Egypt Qatar 123 D4 ◆ monarchy SW Asia NW Egypt **Qausuittuq** see Resolute **Qazimämmäd** 121 J2 SE Azerbaijan Quanzhou 129 F5 S China Qu'Appelle 33 H7 😽 Saskatchewan, Québec 35 D3 province capital Québec, SE Canada Ouébec 35 E5 ◆ province SE Canada Queen Charlotte Islands 33 D6 island group British Columbia, SW Canada Oueen Charlotte Sound 33 D6 sea area British Columbia, W Canada

Queen Elizabeth Islands 33 G2 island
group Nunavut, N Canada

Queensland 137 F3 ◆ state N Australia Queenstown 139 B7 South Island, New Zealand Queenstown 76 D7 S South Africa Quelimane 76 F5 NE Mozambia Quemado 44 C2 New Mexico, SW USA Quepos 55 E6 S Costa Rica Querétaro 53 E4 C Mexico Quesada 55 E6 N Costa Rica Quetta 127 B2 SW Pakistan Quezaltenango 55 A3 W Guatemala Quilon 127 D7 SW India (see also Kollam) Quilty 89 B5 W Ireland Quimper 97 A2 NW France Quimperlé 97 A3 NW France

Pontivy 97 B3 NW France Pontoise 97 D2 N France

Pontypool 93 C7 SE Wales, United Kingdom Pontypridd 93 C7 S Wales,

Ponziane Island 103 C6 island

United Kingdom

R Raahe 83 E3 W Finland Raalte 84 E3 E Netherlands Raamsdonksveer 84 D5 S Netherlands Raasay 91 B3 island NW Scotland, United Kingdom Rába 105 C8 🐼 Austria/Hungary Rabat 70 Co 24 Austria/Ituligary Rabat 70 C1 ● NW Morocco Rabat 112 A5 W Malta Rabaul 141 D1 E Papua New Guinea Rabinal 55 B3 C Guatemala Rabka 105 E6 S Poland
Rabyanah Ramlat 70 G4 desert SE Libya Race, Cape 35 H4 cape Newfoundland, E Canada Rach Gia 131 C4 S Vietnam Racine 40 C5 Wisconsin, N USA Radom 105 F4 C Poland Radomsko 105 E4 C Poland Radzyń Podlaski 105 F4 E Poland Raetihi 139 D4 North Island New Zealand Rafaela 65 B5 E Argentina Raga 75 B4 SW Sudan Ragged Island Range 57 D3 island group S Bahamas Ragusa 103 D8 Sicily, Italy Rahimyar Khan 127 C3 SE Pakistan Raichur 127 D5 C India Rainier, Mount 49 B2 & Washington, NW USA Rainy Lake 43 E1 ⊗ Canada/USA Raipur 127 E4 C India Rajahmundry 127 E5 E India Rajang, Batang 131 D6 😂 East Malaysia Rajapalaiyam 127 D7 SE India Rajasthan 127 C3 state NW India Rajkot 127 C4 W India Rajshahi 127 G3 W Bangladesh Rakaia 139 C6 🖨 South Island, New Zealand Raleigh 39 H3 state capital North Carolina, SE USA
Râmnicu Vâlcea 109 B7 C Romania Ramree Island 131 A3 island W Myanmar (Burma)
Ramsey 93 B3 NE Isle of Man
Ramsgate 95 H4 SE England, United Kingdom Rancagua 65 A5 C Chile Ranchi 127 F4 N India Randers 83 B6 C Denmark Rangiora 139 C6 South Island, New Zealand Rangitikei 139 D4 😂 North Island, New Zealand
Rangoon 131 A3 S Myanmar (Burma)
Rangpur 127 G3 N Bangladesh
Rankin Inlet 33 H4 Nunavut, C Canada Rannoch Moor 91 D4 heathland
C Scotland, United Kingdom
Rapid City 43 A3 South Dakota, N USA Räpina 83 F6 SE Estonia Rarotonga 135 island S Cook Islands Rasht 123 D1 NW Iran Ratän 83 C4 C Sweden Rathfriland 89 E3 SE Northern Ireland. United Kingdom

Rathkeale 89 C5 SW Ireland Rathlin Island 89 E1 island N Northern Ireland, United Kingdom
Ráth Luirc 89 C6 S Ireland
Rathmelton 89 D1 N Ireland Rathmore 89 B6 SW Ireland Rathmullan 89 D1 N Ireland Rathnew 89 E5 E Ireland Rat Islands 50 A1 island group Aleutian Islands, Alaska, USA Ratlam 127 D4 C India Ratnapura 127 E8 S Sri Lanka Raton 44 E1 New Mexico, SW USA Rättvik 83 C5 C Sweden Raufarhöfn 83 B1 NE Iceland Raukumara Range 139 E3 AN North Island, New Zealand Raurkela 127 F4 E India Rauma 83 D5 SW Finland Ravenglass 93 B3 NW England, United Kingdom Ravenna 103 C3 N Italy Ravi 127 C2 A India/Pakistan Rawalpindi 127 D1 NE Pakistan Rawa Mazowiecka 105 E4 C Poland Rawicz 105 C4 C Poland Rawlinna 137 C5 Western Australia Rawlins 47 E4 Wyoming, C USA Rawson 65 B7 SE Argentina Rayong 131 B4 S Thailand Razzaah, Buhayrat ar 123 B2 ⊗ C Iraq Razgrad 107 F2 N Bulgaria Razim, Lacul 109 D7 lagoon NW Black Sea
Reading 95 F4 S England United Kingdom

Reading 37 D5 Pennsylvania, NE USA

Real, Cordillera 58 🛦 C Ecuador

Realicó 65 B5 C Argentina Rebecca, Lake 137 C5 @ Western Australia
Rebun-to 133 F1 island NE Japan Recife 63 I5 E Brazil Recklinghausen 101 A4 W Germany Recogne 84 D8 SE Belgium

Reconquista 65 C4 C Argentina Red Bluff 49 B5 California, W USA Redcar 93 E2 N England, United Kingdom

Red Deer 33 G7 Alberta, SW Canada

Redding 49 B5 California, W USA

Redditch 93 D6 W England, United Kingdom Redhill 95 F4 SE England, United Kingdom Redon 97 B3 NW France Red River 43 D1 & Canada/USA
Red River 131 B2 & China/Vietnam
Red River 44 G2 & S USA Red River 39 B6 😂 Louisiana, S USA Redruth 95 A6 SW England, United Kingdom Red Sea 123 A4 sea Africa/Asia Red Wing 43 F3 Minnesota, N USA Reefton 139 C5 South Island, New Zealand Ree, Lough 89 D4 ⊗ C Ireland Reese River 47 B5 ♣ Nevada, W USA Refahiye 121 F3 C Turkey Regensburg 101 D6 SE Germany Regenstauf 101 D6 SE Germany Regenstaut 101 D6 St Germany Reggane 70 D3 C Algeria Reggio di Calabria 103 E8 SW Italy Reggio nell'Emilia 103 C3 N Italy Regina 33 H7 province capital Saskatchewan, S Canada Rehoboth 76 B5 C Namibia Rehovot 123 G6 C Israel Reid 137 D5 Western Australia Réi, Île de 97 B4 island W France Reims 97 E2 N France Reindeer Lake 33 H5 ⊗ Manitoba/ Saskatchewan, C Canada Reinga, Cape 139 C1 headland North Island, New Zealand Reinosa 99 D1 N Spain Reliance 33 G5 Northwest Territories, C Canada

Rendsburg 101 C2 N Germany

Rengat 131 B6 Sumatra, W Indonesia

Rennell 141 E3 island S Solomon Islands

Rennes 97 B3 NW France Reno 47 A5 Nevada, W USA Republican River 47 G5 😝 Kansas Nebraska, C USA

Repulse Bay 33 I3 Northwest Territories,
N Canada

Resistencia 65 C4 NE Argentina Resita 109 A7 W Roman Resolute 33 H2 Cornwallis Island Nunavut, N Canada Resolution Island 35 E1 island Nunavut, NE Canada **Réthymno** 107 F7 SE Greece **Réunion** 76 H6 French ♦ W Indian Ocean

Reus 99 G3 E Spain

Reutlingen 101 B7 S Germany Reuver 84 E6 SE Netherlands Revillagigedo, Islas 53 B5 island group W Mexico Rexburg 47 D3 Idaho, NW USA Reyes 65 A2 NW Bolivia Rey, Isla del 55 H6 island Archipiélago de las Perlas, SE Panama Reykjavík 83 A1 ■ W Iceland Reynosa 53 F3 C Mexico Rezé 97 B3 NW France Rhein see Rhine Rheine 101 B4 NW Germany Rheinisches Schiefergebirge 101 A5 ▲ W Germany
Rhine 84 E4 ♣ W Europe
Rhinelander 40 B3 Wisconsin, N USA Rho 103 B2 N Italy Rhode Island 37 F5 ◆ state NE USA Rhodes 107 G6 island Dodecanese, Greece Rhodope Mountains 107 E3 ▲ Bulgaria/Greece

Rhône 97 E6 ♣ France/Switzerland

Rhossili 93 B7 S Wales, United Kingdom

Rhum 91 B4 island W Scotland, United Kingdom
Ribble 93 C4 A NW England, United Kingdom Ribeira 99 A2 NW Spain Ribeirão Preto 63 G7 S Brazil Riberalta 65 B1 N Bolivia Rice Lake 40 A3 Wisconsin, N USA Richard Toll 72 A3 N Senegal Richfield 47 D6 Utah, W USA Richland 49 C3 Washington, NW USA Richmond 139 C5 South Island, New Zealand
Richmond 93 D3 N England, United Kingdom
Richmond 39 E2 Kentucky, S USA
Richmond 39 H2 state capital Virginia, NE USA Richmond Range 139 C5 South Island, New Zealand Ricobayo, Embalse de 99 B2 Ridgecrest 49 D8 California, W USA Ridsdale 93 D2 N England, United Kingdom
Ried im Innkreis 101 D7 NW Austria
Riemst 84 D7 NE Belgium

Riesa 101 D4 E Germany

Rigestan 125 E6 desert region

S Afghanistan Riggins 47 B3 Idaho, NW USA Riihimäki 83 E5 S Finland

Rijeka 107 B1 NW Croatia

Rijn see Khine Rijssen 84 E4 E Netherlands

Riga 83 E6 ● C Latvia Riga, Gulf of 83 E6 gulf Estonia/Latvia

Rimah, Wadi ar 123 C4 dry watercourse C Saudi Arabia Rimini 103 D3 N Italy Rimouski 35 E4 Ouébec SE Canada Ringebu 83 B4 S Norway Ringkøbing Fjord 83 A7 fjord W Denmark W Denmark **Ringvassøya** 83 C1 island N Norway **Ringwood** 95 E5 S England, United Kingdom Rio Branco 63 D5 W Brazil Río Bravo 53 F3 C Mexico Río Cuarto 65 B5 C Argentina Rio de Janeiro 63 H7 SE Brazil Río Gallegos 65 B9 S Argentina Río Grande 65 B9 S Argentina Rio Grande 63 F9 S Brazil Río Grande 53 D4 C Mexico Rio Grande 47 F7 A Texas, SW USA Rio Grande do Norte 63 I4 state E Brazil Rio Grande do Sul 63 F8 state S Brazil Ríobacha 63 C1 N Colombia Río Lagartos 53 I4 SE Mexico Riom 97 D5 C France Riom 97 D5 CFrance Rio Verde 53 E4 C Mexico Ripoll 99 G2 NE Spain Ripon 93 D3 N England, United Kingdom Rishiri-to 133 F1 island NE Japan Ritidian Point 51 headland N Guam Rivas 55 D5 SW Nicaragua Rivera 65 C5 NE Uruguay Rivera 65 C5 NE Ortguay River Falls 40 A3 Wisconsin, N USA Riverside 49 D9 California, W USA Riverstown 89 C6 S Ireland Riverton 139 A8 South Island New Zealand Riverton 47 E4 Wyoming, C USA Riviera 44 G6 Texas, SW USA Rivière-du-Loup 35 E5 Québec, SE Canada Rivne 109 C4 NW Ukraine Rivoli 103 A2 NW Italy Riyadh 123 C4 ● C Saudi Arabia Rize 121 F2 NE Turkey Rkîz 72 A3 W Mauritania Road Town 57 14 O C British Virgin Islands Roag, Loch 91 A2 inlet NW Scotland, United Kingdom
Roanne 97 E4 E France
Roanoke 39 G2 Virginia, NE USA
Roanoke River 39 H3 😂 North Carolina/Virginia, SE USA
Roatán 55 D2 N Honduras
Robin Hood's Bay 93 E3 N England, United Kingdom

Robson, Mount 33 F6 ▲ British

Columbia, SW Canada

Robstown 44 H5 Texas, SW USA Roca Partida, Isla 53 B5 island W Mexico Rocas, Atol das 63 I4 island E Brazil Rochdale 93 D4 NW England, United Kingdom
Rochefort 84 D8 SE Belgium
Rochefort 97 B4 W France
Rochester 43 F4 Minnesota, N USA Rochester 37 F3 New Hampshire NE USA
Rochester 37 C3 New York, NE USA Rockford 40 B5 Illinois N USA Rockhampton 137 H4 Queensland E Australia Rock Hill 39 G4 South Carolina, SE USA Rock Island 40 B5 Illinois, N USA Rock Sound 57 E2 Eleuthera Island, Rock Springs 47 E4 Wyoming, C USA Rocky Mount 39 H3 North Carolina, C Bahamas Rocky Mountains 28 A Canada/USA Roden 84 E2 NE Netherlands Rodez 97 D6 S France Rodos see Rhodes Roermond 84 E6 SE Netherlands Roeselare 84 B6 W Belgium Rogers 39 B3 Arkansas, C USA Roi Et 131 C3 E Thailand Rokiškis 83 F7 NE Lithuania Rokycany 105 B5 W Czech Republic Rolla 43 F6 Missouri, C USA Roma 137 G4 Queensland, E Australia Roma see Rome Roman 109 C6 NE Romania Romania 109 C6 NE Romania
Romania 109 B6 ◆ republic SE Europe
Rome 103 C5 ◆ C Italy
Rome 39 E4 Georgia, SE USA
Romford 95 G3 SE England,
United Vinusian United Kingdom

Romney Marsh 95 G4 physical region SE England, United Kingdom Romny 109 E4 NE Ukraine Rømø 83 A7 island SW Denmark Romsey 95 E4 S England, United Kingdom Ronda 99 C6 S Spain Rondônia 63 D5 state W Brazil Rondonópolis 63 F6 W Brazil Rønne 83 C7 E Denmark Ronne Ice Shelf 142 B4 ice shelf Antarctica Roosendaal 84 C5 S Netherlands Roosevelt Island 142 C6 island Antarctica Roraima 63 D3 state N Brazil Roraima, Mount 63 D2 A N South America
Røros 83 B4 S Norway
Rosa, Lake 57 E3

S Bahamas

Roscrea 89 D5 C Ireland Roseau 57 K5 ● SW Dominica Roseburg 49 B4 Oregon, NW USA Rosenberg 44 H4 Texas, SW USA Rosengarten 101 C3 N Germany Rosenheim 101 D7 S Germany Roslavl' 111 A5 W Russian Federation Rosmalen 84 D5 S Netherlands Ross 139 B6 SW New Zealand Rossano 103 E7 SW Italy Ross Carbery 89 B7 S Ireland Ross Ice Shelf 142 C5 ice shelf Antarctica Rosslare 89 E6 SE Ireland Rosslare Harbour 89 E6 SE Ireland Rosso 72 A3 SW Mauritania Ross-on-Wye 93 C6 W England, United Kingdom
Rossosh 111 A7 W Russian Federation
Ross Sea 142 C6 sea Antarctica
Rostock 101 D2 NE Germany Rostov-na-Donu 111 A7
SW Russian Federation
Roswell 44 E3 New Mexico, SW USA
Rother 95 F4 & S England, United Kingdom
Rothera 142 A4 UK research station Antarctica Rotherham 93 E4 N England, United Kingdom Rothesay 91 C6 W Scotland, NE New Zealand Rotterdam 84 C4 SW Netherlands Rottweil 101 B7 S Germany Rotuma 141 14 island NW Fiji Roubaix 97 D1 N France Rouen 97 D2 N France Round Rock 44 G4 Texas, SW USA Roundstone 89 B4 W Ireland Roundwood 89 E5 E Ireland Rousay 91 E1 island N Scotland, United Kingdom Roussillon 97 D7 cultural region S France Rouyn-Noranda 35 D5 Québec, SE Canada Rovaniemi 83 E3 N Finland Rovigo 103 C3 NE Italy Rovuma, Rio 76 F4 Mozambique/Tanzania
Roxas City 131 F4 C Philippines
Royale, Isle 40 C1 island Michigan, Royal Leamington Spa 93 D6 C England, United Kingdom

Royal Tunbridge Wells 95 G4 SE England, United Kingdom Royan 97 B4 W France Royston 95 G3 E England, United Kingdom Rožňava 105 E6 E Slovakia Ruapehu, Mount 139 D4 & North Island, New Zealand Ruapuke Island 139 B8 island SW New Zealand Ruatoria 139 E3 North Island, New Zealand Ruawai 139 D2 North Island, New Zealand Rubizhne 109 G4 E Ukraine Ruby Mountains 47 B5 AN Nevada, W USA
Rudnyy 118 C4 N Kazakhstan Rufiii 75 D7 & E Tanzania Rufino 65 B5 C Argentina Rugby 93 E6 C England, United Kingdom Rugeley 93 D5 C England, United Kingdom Rügen 101 D2 cape NE Germany Ruhr Valley 101 A4 industrial region W Germany
Rukwa, Lake 75 C7 ⊗ SE Tanzania
Rumbek 75 B4 S Sudan
Rum Cay 57 E2 island C Bahamas Rumia 105 D1 N Poland Runanga 139 C5 South Island, New Zealand Runcorn 93 C4 C England, United Kingdom
Rundu 76 C5 NE Namibia Rundu /6 C5 NE Namibia Ruoqiang 129 C3 NW China Rupel 84 C6 & N Belgium Rupert, Rivière de 35 D4 & Québec, C Canada Ruse 107 F2 N Bulgaria Rushden 95 F2 C England, United Kingdom Rushmore, Mount 43 A4 ▲ South Dakota, N USA Dakota, N USA **Russellville** 39 B3 Arkansas, C USA **Russian Federation** 118 D4 ◆ republic Asia/Europe Rust'avi 121 H2 SE Georgia Ruston 39 B5 Louisiana, S USA Rutland 37 E3 Vermont, NE USA Rutland Water 93 E5 @ C England, United Kingdom Rutog 129 A4 W China Ruvuma 75 D7 ✓ Mozambique/Tanzania

Ruwenzori 75 B5 ♠ Dem. Rep. Congo/Uganda Ružomberok 105 E6 N Slovakia Rwanda 75 B6 ♦ republic C Africa Ryazan' 111 B6 W Russian Federation Rybinsk 111 B5 W Russian Federation Rybnik 105 D5 S Poland
Rye 95 G4 SE England, United Kingdom
Rye 93 E3 😝 N England,

Roscommon 40 D4 Michigan, N USA

Rypin 105 E3 C Poland Rysy 105 E6 ▲ S Poland Ryukyu Islands 133 A7 island group SW Japan Rzeszów 105 F5 SF Poland

Saale 101 D4 🗗 C Germany Saalfeld 101 C5 C Germany Saarbrücken 101 A6 SW Germany Saaremaa 83 D6 island W Estonia Saariselkä 83 E2 N Finland Šabac 107 D2 W Serbia Sabadell 99 G2 E Spain Sabah 131 E5 cultural region Borneo. E Malaysia Asia Sab'atayn, Ramlat as 123 C7 desert C Yemen Sabaya 65 A3 S Bolivia Saberi, Hamun-e 123 F3 ⊗
Afghanistan/Iran

Sabba 70 F3 C Libya Sabinas 53 E2 NE Mexico
Sabinas Hidalgo 53 E3 NE Mexico
Sabine Lake 39 A6 ⊗ Louisiana/ Texas, S USA

Sabine River 44 14 😂 Louisiana/
Texas, SW USA

Sable, Cape 39 G9 headland Florida,

SE USA Sable, Île de 141 E5 island NW New Caledonia Sable Island 35 G5 island Nova Scotia, SE Canada Sabzevar 123 E1 NE Iran

Sachsen see Saxony
Sachs Harbour 33 F3 Banks Island,
Northwest Territories, N Canada Sacramento 49 B6 state capital California, W USA

Sacramento Mountains 44 D3

New Mexico, SW USA

Sacramento River 49 R6 California, W USA Sacramento Valley 49 B6 valley California W USA Sa'dah 123 C6 NW Yemen Sado 133 F4 island C Japan Säffle 83 C5 C Sweden Safford 44 C3 Arizona, SW USA Saffron Walden 95 G3 SE England, United Kingdom

Safi 70 B2 W Morocco Safid Kuh, Selseleh-ye 125 D5 ▲ W Afghanistan Saga 133 D7 Kyūshū, SW Japan Sagaing 131 A2 C Myanmar (Burma) Sagami-nada 133 G6 inlet SW Japan Saganaga Lake 43 F1 ⊗ Minnesota, N USA Sagar 127 E4 C India

Saginaw 40 E4 Michigan, N USA Saginaw Bay 40 E4 lake bay Michigan, N USA Sagua la Grande 57 C2 C Cuba Sagunt see Sagunto
Sagunto 99 F4 E Spain
Sahara 72 D2 desert Libya/Algeria
Sahara Atlas 70 D2 ▲ Algeria/Morocco
Sahel 72 E3 physical region C Africa
Sahival 127 D2 E Pakistan Saidpur 127 F3 NW Bangladesh Saimaa 83 F4 ⊗ SE Finland St Albans 95 F3 E England

United Kingdom Saint Albans 39 F2 West Virginia, NE USA St Aldhelm's Head 95 E5 headland S England, United Kingdom
St Andrews 91 E5 E Scotland,
United Kingdom
St Anne 95 H5 Alderney, Channel Islands

St. Anthony 35 G3 Newfoundland, SE Canada Saint Augustine 39 G6 Florida, SE USA

St Austell 95 B5 SW England, United Kingdom
St Austell Bay 95 B6 bay SW England, United Kingdom

St-Barthélemy 57 J4 island
N Guadeloupe

St Bees Head 93 B3 headland

NW England, United Kingdom
St-Brieuc 97 B2 NW France
St. Catharines 35 D6 Ontario, S Canada St Catherine's Point 95 E5 headland S England, United Kingdom St-Chamond 97 E5 E France

Saint Clair, Lake 37 A4 @ Canada/USA St-Claude 97 E4 E France
Saint Cloud 43 E3 Minnesota, N USA
St. Croix 51 island S Virgin Islands (USA) Saint Croix River 40 A3 A Minnesotal Wisconsin, N USA St David's 93 A7 SW Wales,

United Kingdom

St-Dié 97 F3 NE France

St-Egrève 97 E5 E France Saintes 97 B4 W France St-Étienne 97 E5 E France St-Flour 97 D5 C France St-Gaudens 97 C6 S France Saint George 137 G4 Queensland, E Australia Saint George 47 C6 Utah, W USA St. George's 57 K7 ● SW Grenada St-Georges 35 E5 Québec, SE Canada St George's Channel 89 F6 channel Ireland/Wales, United Kingdom Saint Helena 26 UK ♦ C Atlantic Ocean St. Helena Bay 76 B7 bay SW South Africa St Helens 93 C4 NW England, United Kingdom

Saint Helens, Mount 49 B2

Washington, NW USA

St Helier 95 H6 O S Jersey,

Channel Islands Channel Islands

Saint Ignace 40 D3 Michigan, N USA

St Ives 95 A6 E England, United Kingdom

St Ives 95 B3 SW England, United Kingdom St-Jean, Lac 35 E4 ⊗ Québec, SE Canada

St. John 35 F5 New Brunswick, SE Canada St John 95 H6 N Jersey
St. John 51 island Virgin Islands (USA)
Saint John River 37 G1 😝 Canada/USA St John's 57 I4 • Antigua. Antigua and Barbuda

St. John's 35 H4 Newfoundland,

E Canada Saint Johns 44 C2 Arizona. SW USA

Saint Johns 44 C.2 Arizona, SW USA St John's Point 89 C2 headland N Ireland Saint Joseph 43 E6 Missouri, C USA St Julian's 112 B6 N Malta Saint Kitts and Nevis 57 15 ♦

commonwealth republic E West Indies
St. Lawrence, Gulf of 35 F4 gulf

NW Atlantic Ocean
Saint Lawrence Island 50 C1 island Alaska, USA

Alaska, USA
Saint Lawrence River 37 D2
A Canada/USA
St. Lawrence Seaway 35 F4 seaway
Canada/USA North America Gulf of

St.Lawrence N Atlantic Ocean St-Lô 97 C2 N France St-Louis 97 F3 NE France Saint Louis 72 A3 NW Senegal
Saint Louis 43 G6 Missouri, C USA
St Lucia 57 J6 ♦ commonwealth republic

SE West Indies St. Lucia Channel 57 K6 channel Martinique/Saint Lucia North America Atlantic Ocean

St Magnus Bay 91 A6 bay N Scotland, United Kingdom St-Malo 97 B2 NW France

St-Malo, Golfe de 97 B2 gulf NW France St-Margaret's Hope 91 E1 NE Scotland, United Kingdom St-Martin 57 J4 island N Guadeloupe

St Mary 95 H6 Jersey, Channel Islands St. Matthias Group 141 C1 island group NE Papua New Guinea St. Moritz 101 C8 SE Switzerland

St-Nazaire 97 B3 NW France St Neots 95 F2 E England, United Kingdom St-Omer 97 D1 N France Saint Paul 43 E3 state capital Minnesota,

N USA

St Peter Port 95 G6 O C Guernsey, Channel Islands
Saint Petersburg 111 A4

NW Russian Federation
Saint Petersburg 39 F7 Florida, SE USA
St-Pierre and Miquelon 35 G4 French

NE North America
St-Quentin 97 D2 N France

St. Thomas 51 island Virgin Islands (USA)
Saint Vincent 57 J6 island N Saint
Vincent and the Grenadines

Saint Vincent and the Grenadines 57 I6

◆ commonwealth republic

SE West Indies Saint Vincent Passage 57 K6 passage

Saint Vincent rassage 37 Kb pussag Saint Lucia/Saint Vincent and the Grenadines Sajama, Nevado 65 A2 ▲ W Bolivia

Sajószentpéter 105 F7 NE Hungary Sakakawea, Lake 43 B2 ⊠ North Dakota, N USA Sakata 133 F4 C Japan

Sakhalin 118 I4 island SE Russian Federation Saki 121 I2 NW Azerbaijan Sakishima-shoto 133 A8 island group SW Japan Sala 83 C5 C Sweden

Sala Consilina 103 E6 S Italy Salado, Río 65 B4 😂 E Argentina Salado, Río 65 B5 😂 C Argentina Salalah 123 E6 SW Oman Salamá 55 B3 C Guatemala Salamanca 65 A5 C Chile Salamanca 99 C3 NW Spain

Salang Tunnel 125 F4 tunnel C Afghanistan Asia Salantai 83 E7 NW Lithuania Salavat 111 D6 W Russian Federation Šalčininkai 83 F7 SE Lithuania

Salcombe 95 C6 SW England, United Kingdom Sale 137 G6 Victoria, SE Australia Salé 70 C1 NW Morocco Salekhard 118 D3 N Russian Federation

Salelologa 141 A5 C Samoa Salem 127 D7 SE India Salem 49 B3 state capital Oregon, NW USA Salerno 103 D6 S Italy

Salerno, Gulf of 103 D6 gulf S Italy Salford 93 D4 NW England, United Kingdom Salihorsk 109 C3 S Belarus Salina 43 D6 Kansas, C USA

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Rosario 65 C3 C Paraguay Rosarito 53 A1 NW Mexico Roscommon 89 C4 C Ireland ◆ Administrative region 🖹 Volcano 🙇 River 🐵 Lake 🖾 Reservoir ◆ Country ● Country capital ♦ Dependent territory
O Dependent territory capital Mountain range Mountain

United Kingdom Ryki 105 F4 E Poland

Rosalia, Punta 141 C5 headland Easter Island, Chile Rosario 65 C5 C Argentina

San Francisco 49 B7 California, W USA

San Francisco del Oro 53 D3 N Mexico San Francisco de Macorís 57 G4

C Dominican Republic
Sangan, Kuh-e 125 E5 ▲ C Afghanistan
Sangir, Kepulauan 131 F6 island group

Sangmélima 72 G6 S Cameroon Sangre de Cristo Mountains 44 E1

Colorado/New Mexico, C USA

San Joaquin Valley 49 C7 valley California, W USA San Jorge, Gulf of 65 B8 gulf S Argentina

San José del Guaviare 63 C3 S Colombia San Juan 65 A5 W Argentina San Juan 51 O NE Puerto Rico

San Juan de Alicante 99 F5 E Spain San Juan del Norte 55 E5 SE Nicaragua San Juanito, Isla 53 C4 island C Mexico

Costa Rica/Nicaragua

San Juan River 47 E6 S Colorado/
Utah, W USA

Sankt Gallen 101 B7 NE Switzerland

Sankt-Peterburg see Saint Petersburg Sankt Pölten 101 E7 N Austria Sankuru 76 C2 😂 C Dem. Rep. Congo

San Lorenzo 65 B3 S Bolivia
Sanlúcar de Barrameda 99 C6 S Spain
San Lucas Cape 53 C4 headland

N Indonesia

Sangli 127 D5 W India

San Ignacio 55 B2 W Belize San Ignacio 65 B2 N Bolivia

San Ignacio 53 B3 W Mexico

San José 55 E6 C Costa Rica

San José 65 C2 E Bolivia
San José 55 A4 S Guatemala
San Jose 49 B7 California, W USA

San Juan Bautista 65 C4 S Paragua

San Juan Mountains 47 E6

Colorado, C USA San Juan, Río 55 E5

Sanlıurfa 121 F4 S Turkey

W Mexico
San Luis 65 B5 C Argentina
San Luis 55 B2 NE Guatemala

San Luis 53 A1 NW Mexico

San Luis Obispo 49 B8
California, W USA
San Luis Potosí 53 E4 C Mexico

San Marcos 55 A3 W Guatemala
San Marcos 44 G4 Texas, SW USA
San Marino 103 D3 ● C San Marino

E Argentina
Sanmenxia 129 F4 C China
San Miguel 55 B4 SE El Salvador

San Miguel 53 D2 N Mexico

Sanok 105 F6 SE Poland

San Pablo 65 B3 S Bolivia

San Pedro 55 C1 NE Belize

San-Pédro 72 C5 S Côte d'Ivoire San Pedro 53 D3 NE Mexico

San Rafael 65 A5 W Argentina San Rafael Mountains 49 C8

California, W USA

Santa Ana 65 B2 N Bolivia

Santa Ana 55 B4 NW El Salvador Santa Ana 49 D9 California, W USA Santa Barbara 53 D3 N Mexico

Santa Barbara 49 C8 California, W USA Santa Catalina 55 G6 W Panama Santa Catalina Island 49 C9 island

Channel Islands, California, W USA

Santa Catarina 63 F8 state S Brazil Santa Clara 57 C3 C Cuba Santa Comba 99 B1 NW Spain

Santa Cruz 49 B7 California W USA Santa Cruz del Quiché 55 A3

Galapagos Islands, Ecuador Santa Cruz Islands 141 G3 island group

E Solomon Islands

Santa Cruz, Río 65 A8 😂 S Argentina

Santa Elena 55 B2 W Belize

Santa Genoveva 53 B4 ▲ W Mexico

Santa Margarita, Isla 53 B4 island

Santa Maria 49 C8 California, W USA Santa Maria 49 C8 California, W USA Santa Maria 141 G4 island N Vanuatu Santa María, Isla 63 A7 island Galapagos

◆ Country • Country capital

Santa Cruz 65 B2 C Bolivia

Santa Cruz, Isla 63 B7 island

W Guatemala

E Solomon Islands

Santa Fe 65 C5 C Argentina

Santa Fe 44 D2 state capital New Mexico, SW USA

Santa Isabel 141 E2 island

N Solomon Islands

Santa Lucia Range 49 B8

California, W USA

Santa Maria 63 F8 S Brazil

Santa Marta 63 B1 N Colombia Santander 99 D1 N Spain

Islands, Ecuador

San Pedro de la Cueva 53 C2 NW Mexico San Pedro Mártir, Sierra 53 A2

NW Mexico San Pedro Sula 55 C3 NW Honduras

San Ramón de la Nueva Orán 65 B3 N Argentina San Remo 103 A3 NW Italy

San Miguel de Tucumán 65 B4

N Argentina San Miguelito 55 E5 S Nicaragua

San Miguelito 55 H6 C Panama San Miguel, Río 65 B2 😝 E Bolivia

San Marino 103 D3 • republic S Europe
San Martin 142 A4 C Argentina
San Matías 65 C2 E Bolivia
San Matías, Gulf of 65 B7 gulf

Salina 47 D6 Utah, W USA Salina Cruz 53 G6 SE Mexico Salinas 49 B7 California, W USA Salisbury 95 E4 S England, United Kingdom
Salisbury Plain 95 E4 plain S England, United Kingdom Salmon 47 C3 Idaho, NW USA Salmon River 47 B3 🗗 Idaho, NW USA Salmon River Mountains 47 R3 ▲ Idaho, NW USA
Salo 83 E5 SW Finland Salon-de-Provence 97 E6 SE France Salonica 107 E4 N Greece
Sal'sk 111 A8 SW Russian Federation
Salta 65 B4 NW Argentina Saltash 95 B5 SW England United Kingdom Saltillo 53 E3 NE Mexico Salt Lake City 47 D5 state capital Utah, W USA
Salto 65 C5 N Uruguay
Salton Sea 49 D9 ⊗ California, W USA Salvador 63 H6 F Brazil Salvador 63 H6 E Brazil
Salween 131 B2 🚭 SE Asia
Salyan 127 E3 W Nepal
Salzburg 101 D7 N Austria
Salzgitter 101 C4 C Germany
Salzwedel 101 C3 N Germany
Samalayuca 53 C2 N Mexico Samar 131 F4 island C Philippines Samara 111 C6 W Russian Federation Samarinda 131 E6 C Indonesia Samargand 125 F3 C Uzbekistan Sambalpur 127 F4 E India Sambava 76 H4 NE Madagascar Sambir 109 B4 NW Ukraine Sambre 97 E1 & Belgium/France Samfya 76 D3 N Zambia Samoa 141 B4 ♦ monarchy W Polynesia Sámos 107 F5 island Dodecanese. SE Greece Samothraki 107 F4 island NE Greece Sampit 131 D7 C Indonesia Sam Rayburn Reservoir 44 I4
Texas, SW USA
Samsun 121 E2 N Turkey Samtredia 121 G1 W Georgia
Samui, Ko 131 B5 island SW Thailand
San 72 C3 C Mali
San 105 G5 47 SE Poland Sana 123 C6 • W Yemen Sana 107 B2 😂 NW Bosnia and Herzegovina San'a' see Sana Sana a see sana
Sanae 142 B3 South African research
station Antarctica
Sanaga 72 G5 😂 C Cameroon Sanandai 123 C2 W Iran San Andrés, Isla de 55 F4 island NW Colombia San Andrés Tuxtla 53 G5 E Mexico San Angelo 44 F4 Texas, SW USA San Antonio 55 B2 S Belize San Antonio 65 A5 C Chile San Antonio 63 H5 C Chine
San Antonio 44 G5 Texas, SW USA
San Antonio Oeste 65 B7 E Argentina Sanaw 123 D6 NE Yemen San Benedicto, Isla 53 B5 island W Mexico San Benito 55 B2 N Guatemala San Bernardino 49 D8 California, W USA San Blas 53 C3 C Mexico San Blas, Cape 39 D7 headland Florida, SE USA San Blas, Cordillera de 55 H6 ▲ NE Panama

San Carlos 55 E5 S Nicaragua San Carlos 44 C3 Arizona, SW USA San Carlos de Bariloche 65 A7 SW Argentina
San Clemente Island 49 C9 island Channel Islands, California, W USA San Cristóbal 63 C2 W Venezuela San Cristobal 141 F3 island SE Solomon Islands San Cristóbal de Las Casas 53 H5 SE Mexico San Cristóbal, Isla 63 B7 island Galapagos Islands, Ecuador

Sancti Spíritus 57 C3 C Cuba

Sancy, Puy de 97 D5 ▲ C France Sandakan 131 E5 E Malaysia Sandanski 107 E3 SW Bulgaria Sanday 91 E1 island NE Scotland, United Kingdom Sandbach 93 D5 W England, United Kingdom
Sanders 44 C2 Arizona, SW USA Sand Hills 43 B4 A Nebraska, C USA San Diego 49 D9 California, W USA Sandnes 83 A5 S Norway Sandomierz 105 F5 C Poland Sandown 95 E5 S England, United Kingdom Sandpoint 47 B1 Idaho, NW USA Sandray 91 A4 island NW Scotland Sandray 91 A4 isumu NVV Scotland, United Kingdom Sand Springs 43 D7 Oklahoma, C USA Sandusky 40 E5 Ohio, N USA Sandvika 83 B5 S Norway Sandviken 83 D5 C Sweden Sandy City 47 D5 Utah, W USA Sandy Lake 35 A3 @ Ontario, C Canada San Esteban 55 D3 C Honduras San Fernando 99 C6 S Spain San Fernando 57 K7 Trinidad, Trinidad and Tobago San Fernando del Valle de Catamarca 65 B4 NW Argentina

Santarém 63 F4 N Brazil Santarém 99 A4 W Portugal Santa Rosa 65 B6 C Argentina Santa Rosa 49 B6 California, W USA Santa Rosa 44 E2 New Mexico, SW USA Santa Rosa de Copán 55 B3 W Honduras Santa Rosa Island 49 B9 island California W USA Sant Carles de la Ràpita 99 F3 NE Spain Santiago 65 A5 ■ C Chile Santiago 57 G4 N Dominican Republic Santiago 57 64 N Donnincan Re Santiago 55 G7 S Panama Santiago 99 B1 NW Spain Santiago de Cuba 57 E4 E Cuba Santiago de Cuba 57 E4 E Cuba

Santiago del Estero 65 B4 C Argentina
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SE Dominican Republic Santorini 107 F6 island Cyclades SE Greece Santos 63 G7 S Brazil Santo Tomé 65 C4 NE Argentina San Valentín, Cerro 65 A8 ▲ S Chile San Vicente 55 C4 C El Salvador São Francisco, Rio 63 G6 ♣ E Brazil Sao Hill 75 D7 STanzania
São João da Madeira 99 B3 N Portugal
São Luís 63 G4 NE Brazil
São Manuel, Rio 63 E5 🕰 C Brazil Saona, Isla 57 G4 island SE Dominican Republic Saône 97 E5 🖨 E France São Paulo 63 G7 S Brazil São Paulo 63 F7 state S Brazil São Roque, Cabo de 63 I4 headland E Brazil São Tomé 72 F6 S Sao Tome and Principe São Tomé 72 F6 island S Sao Tome and Principe Sao Tome and Principe
Sao Tome and Principe
72 E6 ◆
republic E Atlantic Ocean
São Vicente, Cabo de 99 A5 cape S Portugal

Sapele 72 E5 S Nigeria

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Sapporo 133 F2 NE Japan
Sapri 103 E6 S Italy
Sapulpa 43 D8 Oklahoma, C USA
Saqqez 123 C2 NW Iran
Sarahs 125 D4 S Turkmenistan
Sarajevo 107 C2 ● SE Bosnia and Herzegovina Saraktash 111 D7 W Russian Federation Saran' 118 C5 C Kazakhstan Sarandë 107 D4 S Albania Saransk 111 B6 W Russian Federation Sarasota 39 F8 Florida, SE USA Saratoga Springs 37 E3 New York, NE USA NE USA **Saratov** 111 B7 W Russian Federation **Sarawak** 131 D6 cultural region Borneo, S Malaysia Sardegna see Sardinia Sardinia 103 B6 island W Italy Sargodha 127 C2 NE Pakistan Sarh 72 H4 S Chad Sari 123 D1 N Iran Saría 107 G7 island SE Greece Sarıkamıs 121 G3 NE Turkey Sark 95 H6 island SE Guernsey Şarkışla 121 E3 C Turkey Sarmiento 65 B7 S Argentina Sarnia 35 C6 Ontario, S Canada Sarny 109 C4 NW Ukraine Sarpsborg 83 B5 S Norway Sartène 97 G6 Corsica, France San Kawador 55 H4 © SWE I Salvador
San Salvador 55 H4 © SWE I Salvador
San Salvador 57 E2 island E Bahamas
San Salvador de Jujuy 65 H3 N Argentina
Sansanné-Mango 72 D4 N Togo
Sansepolcro 103 C4 C Italy
San Severo 103 E5 SE Italy Sarthe 97 C3 cultural region N France Europe Sárti 107 E4 N Greece Sarti 107 E4 N Greece Sarygamys Köli 125 C2 salt lake Kazakhstan/Uzbekistan Sary-Tash 125 G3 SW Kyrgyzstan Sasalaguan, Mount 51 A S Guam Sasebo 133 C7 SW Japan Saskatchewan 33 G5 ◆ province SW Canada Saskatchewan 33 H6 😂 Manitoba/ Saskatchewan, C Canada Saskatoon 33 G7 Saskatchewan S Canada Sasovo 111 B6 W Russian Federation Sassandra 72 C5 S Côte d'Ivoire Sassandra 72 C5 S Côte d'Ivoire Sassari 103 A5 Sardinia Italy Sassari 103 A3 Sardinia, Italy
Sassenheim 84 C4 W Netherlands
Sassnitz 101 D2 NE Germany
Sátoraljaújhely 105 F7 NE Hungary Satpura Range 127 D4 & C India Satsunan-shoto 133 A7 island group SW Japan Sattanen 83 E2 NE Finland Satu Mare 109 B5 NW Romania Saudi Arabia 123 C5 ◆ monarchy SW Asia Saulkrasti 83 F6 C Latvia Sault Sainte Marie 40 D2 Michigan, Sault Ste. Marie 35 C5 Ontario, S Canada Saumur 97 C3 NW France Saurimo 76 C3 NE Angola Savá 55 D2 N Honduras Savai'i 141 A4 island NW Samoa Savannah 39 G5 Georgia, SE USA Savannah River 39 G5 A Georgia/ South Carolina, SE USA Save 107 D2 😝 SE Europe Save, Rio 76 E5 ∠ Mozambique/Zimbabwa Saverne 97 F3 NE France

Dependent territory

Savigliano 103 A2 NW Italy Savinskiy 111 C4 NW Russian Federation Savissivik 143 A4 N Greenland Savoie 97 E5 cultural region E France Europe

Savona 103 B3 NW Italy Savu Sea 131 F8 sea S Indonesia Sawel Mountain 89 E2 ▲ C Northern Ireland, United Kingdom Sawhaj 70 I3 C Egypt Sawqirah 123 E6 S Oman Saxony 101 D4 cultural region E Germany Saýat 125 E3 E Turkmenistan Savaxché 55 B2 N Guatemala Sayhut 123 D6 E Yemen
Saynshand 129 F2 SE Mongolia
Sayre 37 D4 Pennsylvania, NE USA
Say'un 123 D6 C Yemen Say un 125 D6 € remen

Scafell Pike 93 C3 ▲ NW England,
United Kingdom

Scandinavia 78 geophysical region NW Europe
Scapa Flow 91 E1 sea basin N Scotland,
United Kingdom Scarborough 57 K7 N Trinidad and Tobago Scarborough 93 F3 N England, United Kingdom Scarp 91 A2 island NW Scotland, United Kingdom Schaerbeek 84 C6 C Belgium Schaffhausen 101 B7 N Switzerland Schagen 84 C3 NW Netherlands Scheessel 101 C3 NW Germany Schefferville 35 E3 Québec, E Canada Scheldt 84 C6 A W Europe Schell Creek Range 47 C5 Nevada, W USA Schenectady 37 E4 New York, NE USA Schertz 44 G5 Texas, SW USA Schiermonnikoog 84 E1 island Waddeneilanden, N Netherlands Schiindel 84 D5 S Netherlands Schiltigheim 97 F3 NE France Schleswig 101 C2 N Germany Schleswig-Holstein 101 C2 state N Germany Schönebeck 101 D4 C Germany Schoten 84 C6 N Belgium Schouwen 84 B5 island SW Netherlands Schwäbische Alb 101 B7 🚵 S Germany Schwandorf 101 D6 SE Germany Schwarzwald see Black Forest Schwarz 101 D7 W Austria Schweinfurt 101 C5 SE Germany Schwerin 101 C3 N Germany Schwyz 101 B8 C Switzerland Scioto River 40 E7 49 Ohio, N USA Scotch Corner 93 D3 N England, United Kingdom
Scotia Sea 142 A2 sea SW Atlantic Ocean
Scotland 91 C4 ◆ national region , United Kingdom
Scott Base 142 C6 NZ research station
Antarctica
Scottsbluff 43 A5 Nebraska, C USA Scottsbar 39 E4 Alabama, S USA Scottsdale 44 B3 Arizona, SW USA Scousburgh 91 A7 NE Scotland, United Kingdom Scranton 37 D4 Pennsylvania, NE USA Scunthorpe 93 E4 E England, United Kingdom Scutari, Lake 107 C3 ⊗ Albania/Montenegro
Seaford 95 G5 SE England, United Kingdom Searcy 39 B3 Arkansas, C USA Seascale 93 B3 NW England, United Kingdom Seattle 49 B2 Washington, NW USA Sébaco 55 D4 W Nicaragua Sebastían Vizcaíno, Bahía 53 A2 bay NW Mexico Secunderabad 127 E5 C India Sedan 97 E2 N France Seddon 139 D5 C New Zealand Seddonville 139 C5 South Island, New Zealand Sédhiou 72 A4 SW Senegal Sedona 44 B2 Arizona, SW USA Seesen 101 C4 C Germany Segezha 111 B3 NW Russian Federation Ségou 72 C3 C Mali Segovia 99 D3 C Spain Séguédine 72 G2 NE Niger Seguin 44 G5 Texas, SW USA Segura 99 E5 & S Spain
Seinäjoki 83 E4 W Finland
Seine 97 D2 & N France
Seine, Baie de la 97 C2 bay N France Sekondi-Takoradi 72 D5 S Ghana Selby 93 E4 N England, United Kingdom Selenga 129 E2 & Mongolia/ Russian Federation Sélestat 97 F3 NE France Selfoss 83 A1 SW Iceland Sélibabi 72 B3 S Mauritania Selkirk 91 E6 SE Scotland. United Kingdom Selma 49 C7 California, W USA Semarang 131 D8 Java, C Indonesia Sembé 76 B1 NW Congo Seminole 44 E3 Texas, SW USA Seminole, Lake 39 E6 ☑ Florida/ Georgia, SE USA
Semipalatinsk 118 D5 E Kazakhstan
Semnān 123 E2 N Iran
Semois 84 D8 😂 SE Belgium Senachwine Lake 40 B6 ⊗ Illinois N USA **Sendai** 133 D8 SW Japan Sendai 133 G4 C Japan Sendai-wan 133 G4 bay E Japan O Dependent territory capital

Senec 105 D7 W Slovakia Senegal 72 A3 ◆ republic W Africa Senegal 72 A3 ♣ W Africa Seney Marsh 40 D2 wetland Michigan NUSA Senftenberg 101 E4 E German Senige Zangbo 129 B4 S7 W China Senica 105 D6 W Slovakia Senja 83 C1 island N Norway Senkaku-shoto 133 A8 island group SW Japan Senlis 97 D2 N France Sennar 75 C3 C Sudan Sens 97 D3 C France Seoul 133 B6 • NW South Korea Sepik 141 A2 😝 Indonesia/ Sepik 141 A2 24 Indonesia/ Papua New Guinea Sept-Îles 35 F4 Québec, SE Canada Serahs 125 D4 S Turkmenistan Seraing 84 D7 E Belgium Seram, Pulau 131 G7 island Maluku, Serang 131 C7 Java, C Indonesia Serasan, Selat 131 D6 strait Indonesia/Malaysia Serbia 107 C3 ♦ federal republic SE Europe Serdar 125 C3 W Turkmenistan Seremban 131 B6 SW Malaysia Serengeti Plain 75 C6 plain N Tanzania Serenje 76 D4 E Zambia Serhetabat 125 D4 S Turkmenistan Sérifos 107 E6 island Cyclades, Greece Serov 118 C4 C Russian Federation Serowe 76 D5 SE Botswana Serpukhov 111 A5 W Russian Federation Sesto San Giovanni 103 B2 N Italy Sète 97 D6 S France Setesdal 83 B5 valley S Norway Sétif 70 E1 N Algeria Setté Cama 76 A2 SW Gabon Settle 93 D3 N England, United Kingdom Setúbal 99 A4 W Portugal Setúbal, Baía de 99 A5 bay W Portugal Seul, Lac 35 A4 ⊗ Ontario, S Canada Sevan 121 H2 C Armenia Sevan, Lake 121 H2 ⊗ E Armenia Sevastopol' 109 F7 S Ukraine Sevenoaks 95 G4 SE England, United Kingdom

Severn 35 B3 🖨 Ontario, S Canada

Severn 93 C5 🖨 England/Wales, United Kingdom
Severnaya Zemlya 118 E2 island group N Russian Federation Severnyy 111 E3 NW Russian Federation Severodvinsk 111 C3 NW Russian Federation Severomorsk 111 C2 NW Russian Federation Sevier Lake 47 C6 ⊗ Utah, W USA Sevilla see Seville Seville 99 B5 SW Spain Seychelles 66 ◆ republic
W Indian Ocean
Seydhisfjördhur 83 B1 E Iceland Seydi 125 E3 E Turkmenistan Seymour 44 G3 Texas, SW USA Sfântu Gheorghe 109 C6 C Romania Sfax 70 F2 E Tunisia Stax 70 F2 E Tunisia
's-Gravenhage see Hague, the
's-Gravenzande 84 C4 W Netherlands
Sgurr Na Lapaich 91 C3 ▲ NW Scotland, United Kingdom
Shache 129 A3 NW China
Shackleton Ice Shelf 142 E5 ice shelf Antarctica
Shaftesbury 95 D4 S England,
United Kingdom
Shahany, Ozero 109 D6
SW Ukraine Shahrak 125 E5 C Afghanistan Shahr-e Kord 123 D2 C Iran Shahrud 123 E1 N Iran Shalkar 118 B5 W Kazakhstan Shamrock 44 F2 Texas, SW USA Shanghai 129 G4 E China Shangrao 129 G5 S China Shannon 89 C5 W Ireland
Shannon 89 B5 ♣ W Ireland
Shannon Erne Waterway 89 D3 canal N Ireland Shannon, Mouth of the 89 A5 estuary W Ireland Shan Plateau 131 B2 plateau E Myanmar (Burma) Shantou 129 G5 S China Shaoguan 129 F5 S China Shapinsav 91 E1 island NE Scotland, United Kingdom
Shar 118 D5 E Kazakhstan Shariah 123 E4 NE United Arab Emirates Shark Bay 137 A4 bay Western Australia Sharon 37 B4 Pennsylvania, NE USA Shashe 76 D5 😝 Botswana/Zimbabwe Shasta Lake 49 B5 M California, W USA Shawne 43 D8 Oklahoma, C USA Shchëkino 111 A6 W Russian Federation Shchors 109 E3 N Ukraine Shchuchinsk 118 CS N Kazakhstan Shchuchyn 109 B2 W Belarus Shebekino 111 A6 W Russian Federation Shebeli 75 F4 A Ethiopia/Somalia Sheberghan 125 E4 N Afghanistan Sheboygan 40 C4 Wisconsin, N USA Shebshi Mountains 72 F4 ▲ E Nigeria Sheelin, Lough 89 D3 ⊗ C Ireland Sheerness 95 G4 SE England, United Kingdom Sheffield 93 D4 N England United Kingdom
Shelby 47 D1 Montana, NW USA Sheldon 43 D4 Iowa, C USA Shelekhov Gulf 118 H3 gulf E Russian Federation Mountain range ▲ Mountain 🛣 Volcano 🚑 River ⊗ Lake 🖾 Reservoir

Shendi 75 C2 NE Sudan Shenyang 129 G2 NE China Shepherd Islands 141 H5 island group C Vanuatu Shepparton 137 F6 Victoria, SE Australia Shepton Mallet 95 D4 SW England, United Kingdom Sherbrooke 35 E5 Québec, SE Canada Shereik 75 C1 N Sudan Sheridan 47 E3 Wyoming, C USA Sherman 44 H3 Texas, SW USA 's-Hertogenbosch 84 D5 S Netherlands Shetland Islands 91 A7 island group NE Scotland, United Kingdom Shevchenko see Aktau
Shiant Islands 91 B3 island group
NW Scotland, United Kingdom NW Scotland, United Kingdom Shibetsu 133 GI NE Japan Shibushi-wan 133 GP 8 bay SW Japan Shihezi 129 C2 NW China Shijazhuang 129 F3 E China Shikarpur 127 C3 S Pakistan Shikoku 133 EF island SW Japan Shilabo 75 F4 E Ethiopia Shildon 93 D2 N England, United Kingdom Shiliguri 127 G3 NE India Shilka 118 G5 & S Russian Federation Shillelagh 89 E5 E Ireland Shillong 127 G3 NE India Shimbiris 75 F3 ▲ N Somalia Shimoga 127 D6 W India Shimonoseki 133 D7 Honshu, SW Japan Shinano-gawa 133 F5 🕰 Honshū, C Japan C Japan Shindand 125 D5 W Afghanistan Shingū 133 F7 Honshu, SW Japan Shinjō 133 G4 Honshu, C Japan Shin, Loch 91 D2 @ N Scotland. United Kingdom

Shinyanga 75 C6 NW Tanzania

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Sierra Nevada 99 D6 S Spain Sierra Nevada 49 B6 W USA Sierra Vieja 44 E4 M Texas, SW USA Sierra Vista 44 C4 Arizona, SW USA Sífnos 107 E6 island Cyclades, Greece Sigli 131 A5 Sumatra, W Indonesia Siglufjördhur 83 A1 N Iceland Signal Peak 44 A3 ▲ Arizona, SW USA Orkney Islands, Antarctica
Sigus 142 A3 UK research station South
Orkney Islands, Antarctica
Siguatepeque 55 C3 W Honduras
Siguiri 72 B4 NE Guinea Silinjärvi 83 F4 C Finland Siirt 121 G4 SE Turkey Sikasso 72 C4 S Mali Sikeston 43 G7 Missouri, C USA Siklós 105 D9 SW Hungary Silchar 127 H3 NE India Silesia 127 H3 NE India Silesia 105 D4 physical region SW Poland Silicon Valley 49 B7 ♦ industrial region California, SW USA North America

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Sivas 121 E3 C Turkey
Sivers'kyy Donets' 109 F4 &
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Skagerrak 83 B6 channel N Europe
Skagit River 49 B1 & Washington, NW HSA NW USA **Skalka** 83 D2 ⊗ N Sweden **Skegness** 93 F5 E England, United Kingdom Skellefteå 83 D3 N Sweden Skellefteälven 83 D3 A N Sweden
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Skopje 107 D3 • N FYR Macedonia Skovorodino 118 G5 SE Russian Federation Skrīveri 83 E6 S Latvia Skull 89 B7 SW Ireland Skye, Isle of 91 B3 island NW Scotland, United Kingdom Skýros 107 F5 island Northern Sporádes, E Greece Slagelse 83 B7 E Denmark Slane 89 E4 E Ireland Slanev 89 F5 & SE Ireland Slatina 109 B7 S Romania Slavonski Brod 107 C1 NE Croatia Sławno 105 C2 NW Poland Sleaford 93 E5 E England, United Kingdom

Sleat, Sound of 91 C4 strait NW Scotland, Sieat, Sound or 91 C4 strait NW St United Kingdom Sliema 112 B6 N Malta Slieve Gamph 89 C3 An N Ireland Slieve League 89 C2 An Donegal, N Ireland Europe Slieve Mish Mountains 89 B6 ▲ SW Ireland
Slievenamon 89 D6 ▲ S Ireland Sligo 89 C3 NW Ireland Sligo Bay 89 C2 inlet NW Ireland Sliven 107 F3 C Bulgaria

Slough 95 F3 S England, United Kingdom

Slovakia 105 E6 ◆ republic C Europe

Slovenia 101 E8 ◆ republic SE Europe Slovenské rudohorie 105 E6

C Slovakia
Slov"yans'k 109 G4 E Ukraine Słubice 105 B3 W Poland Sluch 109 C4 😂 NW Ukraine Słupsk 105 D1 N Poland

Slutsk 109 C3 S Belarus Slyne Head 89 A4 headland W Ireland Smallwood Reservoir 35 F3 South Downs 95 F4 hill range SE England, United Kingdom Southeast Indian Ridge 15 undersea @ Newfoundland S Canada feature Indian Ocean/Pacific Ocean
South East Point 137 F7 headland © Newfoundland, S canada
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Southern Cross 137 B5 Western Australia Snake River Plain 47 C4 plain Idaho, Southern Indian Lake 33 H5 NW USA

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Snina 105 F6 E Slovakia Southern Uplands 91 D6 A S Scotland. United Kingdom

South Esk 91 E4 😝 E Scotland, United Kingdom
South Foreland 95 H4 headland Snowdon 93 B5 ▲ NW Wales. United Kingdom

Snowdonia 93 B5
NW Wales, SE England, United Kingdom South Geomagnetic Pole 142 C5 pole United Kingdom

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South Shetland Islands 142 A3 island Sol, Costa del 99 D6 coastal region group Antarctica
South Shields 93 E2 NE England,
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South Sioux City 43 D4 Nebraska, C USA S Spain Solec Kujawski 105 D3 C Poland Solihull 93 D6 C England, United Kingdom Solikamsk 111 D5 South Sound 89 B5 sound W Ireland South Taranaki Bight 139 C4 bight NW Russian Federation SoP-Iletsk 111 D7 W Russian Federation SE Tasman Sea

South Tyne 93 C2 AN England, Solingen 101 A4 W Germany Sollentuna 83 D5 C Sweden United Kingdom
South Uist 91 A3 island NW Scotland, Solomon Islands 141 F2 commonwealth republic
W Pacific Ocean

Solomon Sea 141 C2 sea W Pacific Ocean United Kingdom Onited Kingdom

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SW New Zealand

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Staithes 93 E3 N England,
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CUSA
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Stradbally 89 D5 C Ireland Strakonice 105 B6 S Czech Republic
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Stack Skerry 91 D1 island N Scotland,

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Stronsay 91 E1 island NE Scotland,

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Tabriz 123 C1 NW Iran
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Tambea 141 E3 C Solomon Islands
Tambov 111 B6 W Russian Federation Tambura 75 B4 SW Sudan Tâmchekket 72 B3 S Mauritania Tamiahua, Laguna de 53 F4 lagoon E Mexico Tamil Nadu 127 E7 cultural region Tampa 39 F7 Florida, SE USA
Tampa Bay 39 F8 bay Florida, SE USA
Tamper 83 E5 W Finland
Tampico 53 F4 C Mexico Tamuning 51 NW Guam
Tamworth 137 G5 New South Wales, SE Australia Tamworth 93 D5 C England, United Kingdom

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Tana, Lake 75 D3 ⊗ NW Ethiopia
Tanami Desert 137 D2 desert Northern Territory, N Australia

Tandil 65 C6 E Argentina

Tane Range 131 B3 AW Thailand Tanga 75 D6 E Tanzania Tanganyika, Lake 75 B6 ⊗ E Africa Tangaroa, Maunga 141 C6 € Easter Island, Chile Tanggula Shan 129 C4 ▲ W China Tangier 70 C1 NW Morocco Tangra Yumco 129 B4 ⊗ W China Tangshan 129 G3 E China Tanimbar, Kepulauan 131 G8 island group Maluku, E Indonesia Tanna 141 H5 island S Vanuatu Tan-Tan 70 B2 SW Morocco
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Taranto, Gulf of 103 E7 gulf S Italy Tarare 97 E5 E France
Tarascon 97 E6 SE France
Taravao 141 B6 W French Polynesia Taraz 118 C6 S Kazakhstan Tarazona 99 E2 NE Spain
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Tarbert 91 B3 NW Scotland, United Kingdom

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Tarvisio 103 D2 NE Italy
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Taupo 139 D3 N New Zealand

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Taurus Mountains 121 C5 ▲ S Turkey Tautira 141 B6 W French Polyn Tavas 120 B4 SW Turkey Taveuni 141 J5 island N Fiji Tavira 99 R5 S Portugal Tavy 95 B5 ♣ SW England, United Kingdom

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Tayma 123 B3 NW Saudi Arabia

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Tefé 63 D4 N Brazil

Tegal 131 D7 Java, C Indonesia Tegelen 84 E5 SE Netherlands Tegucigalpa 55 C3 ● SW Honduras Tehran 123 D2 ● N Iran Tehuacán 53 F5 S Mexico Tehuantepec 53 G5 SE Mexico Tehuantepec, Gulf of 53 G6 gulf S Mexico Tehuantepec, Isthmus of 53 F5
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Tengréla 72 C4 N Côte d'Ivoire
Tenkodogo 72 D4 S Burkina Faso
Tennant Creek 137 E3 Northern Territory, C Australia

Tennessee 39 D3 ◆ state SE USA Tennessee River 39 D4 😂 S USA Tepic 53 D4 C Mexico Teplice 105 B5 NW Czech Republic Tequila 53 D4 SW Mexico
Teraina 135 atoll Line Islands, E Kiribati
Teramo 103 D4 C Italy Tercan 121 F3 NE Turkey Teresina 63 H4 NE Brazil
Terevaka, Maunga 141 C5 &
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Teruel 99 F3 E Spain
Tervuren 84 C6 C Belgium Teseney 75 D2 W Eritrea Tessalit 72 D2 NE Mali Tessaoua 72 F3 S Niger Tessenderlo 84 D6 NE Belgium Test 95 E4 ♣ S England, United Kingdom Tete 76 E4 NW Mozambique Teterow 101 D2 NE Germany Tétouan 70 C1 N Morocco Tevere see Tiber
Teviot 91 E6 ♣ SE Scotland. United Kingdom

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Texana, Lake 44 H5 ⊗ Texas, SW USA

Texarkana 39 A4 Arkansas, C USA

Texarkana 44 I3 Texas, SW USA Texas 44 F4 ◆ state S USA

Texas City 44 I5 Texas, SW USA

Texel 84 C2 island Waddeneilanden, NW Netherlands NW Netherlands

Texoma, Lake 44 H2 ☑ Oklahoma/
Texas, C USA

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Thame 95 F3 C England, United Kingdom
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Tineo 107 F6 island Cyclades, SE Greece
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Tiruchchirappalli 127 E7 SE India Tisa 107 D1 ♣ SE Europe
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▲ NW Pakistan

Tobermory 91 B4 W Scotland,
United Kingdom

Tobol 118 C4

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Tocantins 63 G5 state C Brazil
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Tol'yatti 111 C6 W Russian Federation Tomah 40 B4 Wisconsin, N USA Tomakomai 133 G2 NE Japan Tomar 99 B4 W Portugal Tomaszów Lubelski 105 G5 E Poland Tomaszów Mazowiecki 105 E4 C Poland Tombigbee River 39 D5 ♣ Alaba Mississippi, S USA Tombstone 44 C4 Arizona, SW USA Tombua 76 B4 SW Angola Mountain range

Tomelloso 99 E4 C Spain Tomini, Gulf of 131 F6 bay Celebes, C Indonesia Thurso 91 E2 N Scotland. United Kingdom **Tianjin** 129 G3 E China Tianshui 129 F4 C China Tomintoul 91 F4 N Scotland United Kingdom

Tommot 118 G4 NE Russian Federation Tomsk 118 D5 C Russian Federation Tomür Feng 129 B2 ▲ China/Kyrgyzstan Tonawanda 37 B3 New York, NE USA Tonga 141 K6 ◆ monarchy SW Pacific Ocean Tongatapu 141 K6 island Tongatapu Group, S Tonga Tonga Trench 14 undersea feature S Pacific Ocean Tongchuan 129 F4 C China Tongeren 84 D7 NE Belgium Tonghae 133 C5 NE South Korea Tongking, Gulf of 131 C3 gulf China/Vietnam Tongliao 129 G2 N China Tongtian He 129 C4 😂 C China Tongue 91 D2 N Scotland, United Kingdom United Kingdom

Tongue River 47 E3 ♣ Montana,
NW USA

Tonj 75 B4 SW Sudan

Tônlé Sap 131 C4 ② W Cambodia

Tonopah 47 B6 Nevada, W USA

Tonosí 55 G7 S Panama

Toocle 47 D5 Utah, W USA

Toormore 89 B7 S Iraband Toormore 89 B7 S Ireland Toowoomba 137 H4 Queensland, E Australia E Australia **Topeka** 43 D6 state capital Kansas, C USA **Topolčany** 105 D6 W Slovakia **Tor Bay** 95 C5 bay SW England, United Kingdom **Torez** 109 G5 SE Ukraine Torgau 101 D4 E Germany Torhout 84 B6 W Belgium Torino see Turin Toriu 141 C2 E Papua New Guinea Torneträsk 83 D2 ⊗ N Sweden Tornio 83 E3 NW Finland Tornionioki 83 F2 S Finland/Sweden Toro 99 C2 N Spain Toronto 35 D6 province capital Ontario, S Canada Toros Dağları see Taurus Mountains Torquay 95 C5 SW England, United Kingdom Torrance 49 C9 California, W USA Torre, Alto da 99 A3 ☐ C Portugal Torre del Greco 103 D6 S Italy Torreión de Ardoz 99 D3 C Spain Torrelavega 99 D1 N Spain Torrens, Lake 137 E5 salt lake South Australia Torrent 99 F4 E Spain Torreón 53 D3 NE Mexico Torres Islands 141 G4 island group N Vanuatu Torres Strait 141 A3 strait Australia/ Papua New Guinea
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Traverse City 40 D3 Michigan, N USA
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Třebíč 105 C6 C Czech Republic Trebišov 105 F6 E Slovakia Trélazé 97 C3 NW France Trelew 65 B7 SE Argentina Tremelo 84 C6 C Belgium Trenčín 105 D6 W Slovakia Trenque Lauquen 65 B6 E Argentina Trent 93 E4 😂 C England, United Kingdom
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Trenton 37 D5 state capital New Jersey,
NE USA Tres Arroyos 65 C6 E Argentina Tres Marías, Islas 53 C5 island group C Mexico Treviso 103 D2 NE Italy Trevose Head 95 A5 headland SW England, United Kingdom Trichur 127 D7 SW India (see also Thrissur)
Trier 101 A6 SW Germany
Trieste 103 D2 NE Italy Trikala 107 D5 C Greece Trim 89 E4 E Ireland
Trincomalee 127 E7 NE Sri Lanka Trinidad 65 B2 N Bolivia Trinidad 65 C5 S Uruguay Trinidad 47 F6 Colorado, C USA Trinidad 57 K7 island C. Trinidad 3/ K/ isunu €
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Truro 35 G5 Nova Scotia, SE Canada
Truro 95 A6 SW England, United Kingdom
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Tuguegarao 131 F3 N Philippines Tuktovaktuk 33 F3 Northwest Tuktoyaktuk 33 F3 Northwest Territories, NW Canada Tula 111 A6 W Russian Federation Tulancingo 53 F5 C Mexico Tulare Lake Bed 49 B8 salt flat California, W USA Tulcán 63 B3 N Ecuador Tulcea 109 D7 E Romania Tulia 44 F2 Texas, SW USA Tullamore 89 D4 C Ireland Tulle 97 D5 C France Tulln 101 F7 NE Austria Tullow 89 E5 SE Ireland Tully 137 G2 Queensland, NE Australia Tulsa 43 D7 Oklahoma, C USA Tulsk 89 C3 C Ireland Tuluá 63 B3 W Colombia Tulun 118 E5 S Russian Federation Tulun Islands 141 D2 island group NE Papua New Gu

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N New Zealand

also Trichur) Thuin 84 C7 S Belgium

Thrissur 127 D7 SW India (see

Thun 101 B8 W Switzerland
Thunder Bay 35 B4 Ontario, S Canada
Thuner See 101 A8 ⊗ C Switzerland

Thung Song 131 B5 SW Thailand Thurles 89 D5 S Ireland

Tumbes 63 A4 NW Peru Tumkur 127 D6 W India Tummel 91 D4 & C Scotland United Kingdom
Tunduru 75 D7 S Tanzania Tungsten 33 F5 Northwest Territories. Tungsten 33 F5 Northwest Territories, W Canada
Tunis 70 F1 ● NE Tunisia
Tunis, Golfe de 112 E4 gulf NE Tunisia
Tunisia 70 E2 ◆ republic N Africa
Tunja 63 C2 C Colombia Tuong Duong 131 C3 N Vietnam Tupelo 39 D4 Mississippi, S USA Tupiza 65 B3 S Bolivia Turangi 139 D4 North Island, New Zealand Turan Lowland 125 D2 plain C Asia Turavf 123 B2 NW Saudi Arabia Turbat 127 A3 SW Pakistan Turda 109 B6 NW Romania Turín 103 A2 El Salvador Turin 103 A2 NW Italy
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Tweedmouth 93 D1 N England,
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Twin Falls 47 C4 Idaho, NW USA Tychy 105 E5 S Poland Tyler 44 H3 Texas, SW USA Tympáki 107 F7 Crete, Greece Tynda 118 G5 SE Russian Federation Tyne 91 F7 😝 N England, United Kingdom

Tynemouth 93 D2 NE England,
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Uçtagan Gumy 125 C2 desert NW Turkmenistan
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Udine 103 D2 NE Italy
Udon Thani 131 B3 N Thailand Udon 'Thani 131 B3 N Thailand
Udupi 127 D6 SW India
Uele 76 C1 ♣7 NE Dem. Rep. Congo
Uelzen 101 C3 N Germany
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Uig 91 B3 N Scotland, United Kingdom Uige 76 B3 NW Angola
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Uitenhage 76 D7 S South Africa
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Ulm 101 C7 S Germany
Ulsan 133 C6 SE South Korea Ulsta 91 B6 NE Scotland. United Kingdom
Ulster 89 D2 cultural region N Ireland
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103 D4 ▲ C Italy
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United Kingdom 87 D5 ◆ monarchy

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United States of America 29 ◆ federal

republic North America

United Kingdom Ünye 121 E2 W Turkey

Unst 91 B5 island NE Scotland

Unala 55 E5 NW Costa Rica

Upemba, Lac 76 D3 ⊗
SE Dem. Rep. Congo
Upolu 141 B5 island SE Samoa

Upper Darby 37 D5 Pennsylvania,

NE USA Upper Klamath Lake 49 B4 ⊗ Oregon,

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Russian Federation Ural'sk 118 B4 NW Kazakhstan

Ural'sk 118 B4 INW NAZAKIISIAII Ural'skiye Gory see Ural Mountains Urbandale 43 E5 Iowa, C USA Ure 93 D3 & N England,

United Kingdom
Uren' 111 C5 W Russian Federation

Urganch 125 D2 W Uzbekistan

Urmia, Lake 123 C1 @ NW Iran Uroteppa 125 F3 NW Tajikistan Uruapan 53 E5 SW Mexico Uruguay 65 C5 ♦ republic

Uruguay 65 C5 ◆ republic
E South America
Uruguay 65 C5 ፉ E South America
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Urup, Ostrov 118 14 island Kurile
Islands, Russian Federation
Uruzgan 125 F5 C Afghanistan
Usa 111 E3 ፉ NW Russian Federation
Light 120 82 W Turken;

Ushuaia 65 B9 S Argentina Usinsk 111 D3 NW Russian Federation

Usk 93 B6 😝 SE Wales, United Kingdom

Ussuriysk 118 H6 SE Russian Federation

Ustica 103 C7 Sicily, Italy Ust'-Ilimsk 118 F4 C Russian Federation

Ust'-Kamenogorsk 118 D5 E Kazakhstan Ust'-Kut 118 F5 C Russian Federation

Ustyurt Plateau 125 C1 plateau Kazakhstan/Uzbekistan Usulután 55 C4 SE El Salvador

Utah Lake 47 C5 @ Utah, W USA

Utica 37 D3 New York, NE USA Utrecht 84 D4 C Netherlands

Usumacinta, Río 55 A2

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Utah 47 C5 ♦ state W USA

Urgut 125 F3 C Uzbekistan Urlingford 89 D5 SE Ireland

Usak 120 B3 W Turkey

Usol'ye-Sibirskoye 118 F5 C Russian Federation Ussel 97 D5 C France

Ústí nad Labem 105 B5

NW Czech Republic Ustka 105 C1 N Poland Ust'-Kamchatsk 118 I3

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Valday 111 A4 W Russian Federation Valdecañas, Embalse de 99 C4 ⊠ W Spain

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Utsunomiya 133 G5 S Japan

Uttoxeter 93 D5 C England.

Uvs Nuur 129 D1

Mongolia

Uttaranchal 127 E2 state N India Uttar Pradesh 127 E3 state N India

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Utupua 141 G3 island E Solomon Islands
Uulu 83 E6 SW Estonia
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'Uwaynāt, Jabal al 75 B1 ▲ Libya/Sudan

Uyo 72 F5 S Nigeria
Uyuni 65 B3 W Bolivia
Uzbekistan 125 D2 ◆ republic C Asia
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SE Argentina
Valdez 50 E3 Alaska, USA
Valdivia 65 A6 C Chile Val-d'Or 35 D5 Québec, SE Canada Valdosta 39 F6 Georgia, SE USA Valence 97 E5 E France Valencia 99 F4 E Spain Valencia 63 D1 N Venezuela Valencia, Gulf of 99 F4 gulf E Spain Valencia Island 89 A6 island SW Ireland Valenciennes 97 E1 N France Valentine 43 B4 Nebraska, C USA Valjevo 107 D2 W Serbia Valkenswaard 84 D5 S Netherlands Valladolid 53 I4 SE Mexico Valladolid 99 D2 NW Spain Vall d'Uxó 99 F4 E Spain Vallejo 49 B6 California, W USA

Vallenar 65 A4 N Chile Valletta 112 B6 ● E Malta valietta 112 B6 ● E Malta
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Válljohka 83 E1 N Norway
Valls 99 G3 NE Spain
Valparaíso 65 A5 C Chile Valnaraiso 40 C5 Indiana N USA Valverde del Camino 99 C5 SW Spain Van 121 G3 E Turkey Vanadzor 121 H2 N Armenia Van Buren 37 G1 Maine, NE USA Vanceboro 37 H2 Maine, NE USA Vancouver 33 F7 British Columbia, SW Canada

Vancouver 49 B3 Washington, NW USA Vancouver Island 33 E7 island British Columbia, SW Canada Van Diemen Gulf 137 D1 gulf Northern Territory, N Australia Vänern 83 C6 ⊗ S Sweden

Vangaindrano 76 G6 SE Madagascar Van Gölü see Van, Lake Van Horn 44 E4 Texas, SW USA Vanikolo 141 G3 island Santa Cruz Islands, E Solomon Islands
Vanimo 141 A1 NW Papua New Guinea
Van, Lake 121 G4 salt lake E Turkey

Vannes 97 B3 NW France Vantaa 83 E5 S Finland Vanua Lava 141 G4 island Banks Islands, N Vanuatu

Vanua Levu 141 I5 island N Fiii Vanuatu 141 E4 ◆ republic SW Pacific Ocean
Van Wert 40 D6 Ohio, N USA
Vao 141 G6 S New Caledonia
Varanasi 127 F3 N India
Varangerfjorden 83 F1 fjord N Norway

Varangerhalvøya 83 E1 penin N Norway Varaždin 107 B1 N Croatia

Varberg 83 B6 S Sweden
Varbar 107 E4

FYR Macedonia/Greece
Varde 83 B7 W Denmark Varese 103 B2 N Italy Vârful Moldoveanu 109 B6

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W Greece Vaslui 109 D6 C Romania Västerås 83 C5 C Sweden Vatican City 103 C5 ♦ papal state

S Europe Vatnajökull 83 A1 glacier SE Iceland Vättern 83 C6 ⊗ S Sweden

Vaughn 44 D2 New Mexico, SW USA

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Villarrica 65 C4 SE Paraguay

Villavicencio 63 C2 C Colombia Villaviciosa 99 C1 N Spain Villazón 65 B3 S Bolivia

Villena 99 F4 E Spain
Villeurbanne 97 E5 E France
Villingen-Schwenningen 101 B7

Villingen-Schwenningen 101 B7 S Germany Vilnius 83 F7 ● SE Lithuania Vilvoorde 84 C6 C Belgium Vilyuy 118 G4 ← NE Russian Federation Viña del Mar 65 A5 C Chile Vinarós 99 F3 E Spain Vincennes 40 C7 Indiana, N USA Vindhus Pace 1270 H6 & N Idalia

Vindhya Range 127 D4 ▲ N India Vineland 37 D6 New Jersey, NE USA Vinh 131 C3 N Vietnam Vinita 43 E7 Oklahoma, C USA

Vinnytsya 109 D5 C Ukraine Vinson Massif 142 A4 ▲ Antarctica

Virginia 43 E2 Minnesota, N USA Virginia 43 H2 ♦ state NE USA Virginia Beach 39 I2 Virginia, NE USA

Virgin Islands (USA) 51 US ♦
E West Indies

Virgin Passage 51 passage Puerto Rico/
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Virovitica 107 C1 NE Croatia Virton 84 D9 SE Belgium Vis 107 B3 island S Croatia

Visbv 83 D6 SE Sweden

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Viscount Melville Sound 33 G2 sound

Vistula 105 E2 & C Poland

Vistula Lagoon 105 E1 lagoon Poland/
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vitoria o 3 H/ SE Brazil Vitória da Conquista 63 H6 E Brazil Vitoria-Gasteiz 99 E2 N Spain Vitré 97 B3 NW France Vitsyebsk 109 D2 NE Belarus Vittoria 12 D2 SE 3 T 1

Vladimir 111 B5 W Russian Federation Vladivostok 118 H6

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Volga Uplands 111 B6 W W Russian Federation Volgodonsk 111 A7

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Vohimena, Tanjona 76 F6 headland S Madagascar Voiron 97 E5 E France

N Serbia

Volga 111 B7 😂 NW Russian Federation

Volgograd 111 B7 SW Russian Federation Volkhov 111 A4 NW Russian Federation

NW Ukraine Vologda 111 B4 W Russian Federation

Volos 107 E5 C Greece
Vol'sk 111 C6 W Russian Federation
Volta 72 D5 😂 SE Ghana

Voorst 84 E4 E Netherlands

Võrtsiärv 83 E6 @ SE Estonia

Vratsa 107 E3 NW Bulgaria

Vrbas 107 C2 A N Bosnia and

Vsetín 105 D6 E Czech Republic Vukovar 107 C1 E Croatia

Vulcano, Isola 103 D7 island

Vung Tau 131 C4 S Vietnam

NW Russian Federation

Vyborg 111 A4 NW Russian Federation

Vrhas 107 C1 NW Serbia

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Vunisea 141 J5 SE Fiji Vyatka 111 C5 ♣

Antarctica

Volta, Lake 72 D5 S S Ghana
Volturno 103 D5 S S Italy
Volzhskiy 111 B7 SW Russian Federation

Vorderrhein 101 B8 ♣ SE Switzerland Vorkuta 111 E3 NW Russian Federation Voronezh 111 A6 W Russian Federation

Voru 83 F6 SE Estonia
Vosges 97 F3 & NE France
Vostok 142 D5 Russian research station

Vranov nad Topl'ou 105 F6 E Slovakia

Viterbo 103 C4 C Italy Vitiaz Strait 141 B2 strait NE Papua

New Guinea Viti Levu 141 I5 island W Fiji

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SW Russian Federation

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N Netherlands

Velikiy Novgorod 111 A4
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Veliko Turnovo 107 F3 N Bulgaria Veľký Krtíš 105 E7 C Slovakia Vella Lavella 141 D2 island New Georgia Islands, NW Solomon Islands Vellore 127 E6 SE India Velsen-Noord 84 C3 W Netherlands Vel'sk 111 C4 NW Russian Federation Vendôme 97 C3 C France

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Venice 103 D2 NE Italy

Venice 39 C7 Louisiana, S USA Venice, Gulf of 103 D3 gulf N Adriatic Sea Venlo 84 E5 SE Netherlands Venta 83 F6 & Latvia/Lithuania

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Ventspils 83 E6 NW Latvia Vera 65 C4 C Argentina Veracruz 53 F5 E Mexico Vercelli 103 R2 NW Italy Verdalsøra 83 C4 C Norway Verde, Costa 99 D1 coastal region

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Victoria 67 • SW Seychelles
Victoria 33 E7 province capital Vancouver
Island, British Columbia, SW Canada Victoria 112 A6 NW Malta

Victoria 112 A6 NW Malia Victoria 44 H5 Texas, SW USA Victoria 137 F6 ◆ state SE Australia Victoria Falls 76 C5 waterfall Zambia/Zimbabwe

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Victorville 49 D8 California, W USA
Vidalia 39 F5 Georgia, SE USA
Vidin 107 E2 NW Bulgaria Viedma 65 B7 E Argentina Vienna 101 F7 ● NE Austria

Vienne 97 E5 E France Vienne 97 C4 AV W France Vientiane 131 B3 ● C Laos Vieques 51 E Puerto Rico Vieques, Isla de 51 island E Puerto Rico Vierzon 97 D3 C France Vietnam 131 C4 ◆ republic SE Asia

Vieux Fort 57 K6 S Saint Lucia Vigo 99 B2 NW Spain Vijayawada 127 E5 SE India Vila do Conde 99 B2 NW Portugal Vilafranca del Penedès 99 G2 NE Spain Vilaka 83 F6 NE Latvia Vilalba 99 B1 NW Spain Vila Nova de Gaia 99 B3 NW Portugal

Vila Real 99 B3 N Portugal Vilhelmina 83 C3 N Sweden Viliya 109 C2 😝 W Belarus Villa Acuña 53 F2 NE Mexico Villa Bella 65 B1 N Bolivia Villacarrillo 99 E5 S Spain

Villach 101 E8 S Austria Villacidro 103 A6 Sardinia Italy Villafranca de los Barros 99 C4 W Spain Villahermosa 53 H5 SE Mexico Villajoyosa 99 F4 E Spain Villa María 65 B5 C Argentina Villa Martín 65 A3 SW Bolivia

Villanueva de la Serena 99 C4 W Spain Villanueva de los Infantes 99 E4 C Spain

Waala 141 F6 W New Caledonia Wabash 40 D6 Indiana, N USA

Wahash River 40 D6 AN NISA Waco 44 H4 Texas, SW USA Waco 44 H4 Texas, SW USA Waddan 70 G3 NW Libya Waddeneilanden see West Frisian Islands Waddenzee 84 D2 sea SE North Sea
Waddington, Mount 33 E7 ▲ British
Columbia, SW Canada Wadebridge 95 B5 SW England, United Kingdom Wadi Halfa 75 C1 N Sudan Wad Medani 75 C2 C Sudan Waflia 131 G7 E Indonesia
Wagga Wagga 137 G6 New South Wales,

SE Australia SE Australia **Wagin** 137 B5 Western Australia **Wah** 127 C1 NE Pakistan **Wahai** 131 G7 E Indonesia Wahiawā 51 B1 Oʻahu, Hawaii, USA Wahibah Sands 123 E5 desert N Oman Wahpeton 43 D2 North Dakota,

wanpeton 43 D2 North Dakota, N USA Waiau 139 A8 ♣ South Island, New Zealand Waigeo, Pulau 131 G6 island Maluku, E Indonesia

E Indonesia

Waikaremoana, Lake 139 E3 ⊗
North Island, New Zealand

Wailuku 51 C2 Maui, Hawaii, USA

Waimate 139 B7 South Island. New Zealand

Waimea 51 D2 Hawaii, USA Waiouru 139 D4 North Island.

New Zealand

Waipara 139 C6 South Island, New Zealand

New Zealand

Waipawa 139 D4 North Island,
New Zealand

Waipukurau 139 D4 North Island, New Zealand

Wairau 139 C5 A South Island,

New Zealand Wairoa 139 E4 North Island. New Zealand

Wairoa 139 D2 😂 North Island, New Zealand Waitaki 139 B7 A South Island.

New Zealand

Waitara 139 C4 North Island, New Zealand Wainku 139 D3 North Island

New Zealand Wakasa-wan 133 E6 bay C Japan

Wakatipu, Lake 139 B7 ⊗ South Island, New Zealand Wakayama 133 E6 SW Japan Wakefield 93 D4 N England, United Kingdom Wakkanai 133 F1 NE Japan Wałbrzych 105 C5 SW Poland

Walcourt 84 C8 S Belgium
Walcz 105 C2 NW Poland
Wales 50 D1 Alaska, USA
Wales 93 B6 ♦ national region Wales,

United Kingdom Walgett 137 G5 New South Wales SE Australia Walker Lake 47 A6 ⊗ Nevada, W USA

Wallace 47 B2 Idaho, NW USA Wallachia 109 B7 cultural region S Romania

Wallasey 93 C4 NW England, United Kingdom Walla Walla 49 C3 Washington, NW USA

Wallis and Futuna 141 I4 French ♦ C Pacific Ocean
Wallis, Îles 141 K4 island group

N Wallis and Futuna Walney, Isle of 93 C3 island NW England, United Kingdom Walnut Ridge 39 C3 Arkansas, C USA Walsall 93 D6 C England,

United Kingdom
Walvis Bay 76 B5 NW Namibia
Wanaka 139 B7 South Island, New Zealand Wanaka, Lake 139 A7 @ South Island.

New Zealand Wandel Sea 143 C5 sea Arctic Ocean

Wanganui 139 D4 North Island, New Zealand New Zealand **Wangaratta** 137 G6 Victoria, SE Australia **Wanlaweyn** 75 F5 SW Somalia

Wanzhou 129 F4 C China Warangal 127 E C Clidia
Warburg 101 B4 W Germany
Ware 33 E6 British Columbia, W Canada Waremme 84 D7 E Belgium
Waren 101 D3 NE Germany
Warkworth 139 D2 North Island,

New Zealand New Zealand **Warminster** 95 D4 S England, United Kingdom **Warm Springs** 47 B6 Nevada, W USA **Warnemunde** 101 D2 NE Germany

Warner 43 E8 Oklahoma, C USA Warnes 65 B2 C Bolivia

Warrego River 137 G5 seasonal river New South Wales/Queensland, E Australia Warren 40 E5 Michigan, N USA

Warren 40 E5 Micnigan, N USA
Warren 47 F6 Ohio, N USA
Warren 37 B4 Pennsylvania, NE USA
Warri 72 E5 S Nigeria
Warrington 93 C4 C England,
United Kingdom
Warrnambool 137 F6 Victoria,
SE Australia

SE Australia Warsaw 105 F3 ● C Poland Warszawa see Warsaw Warta 105 D4 😽 W Poland

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Wa 72 D4 NW Ghana Waal 84 D4 ♣ S Netherlands

◆ Administrative region ♦ Dependent territory
O Dependent territory capital Mountain range Mountain

Villanueva 53 E4 C Mexico

WARWICK Warwick 137 H5 Queensland, E Australia Warwick 93 D6 C England, United Kingdom Warwick 37 F4 Rhode Island NE USA Warwick 37 F4 Rhode Island, NE US. Washington 93 D2 NE England, United Kingdom Washington 40 C7 Indiana, N USA Washington 49 B2 ◆ state NW USA Washington DC 39 H1 ● District of Columbia, NE USA Washington, Mount 37 F3 ▲ New Hampshire, NE USA Wash, The 95 G1 inlet E England, United Kingdom
Waspam 55 E3 NE Nicaragua
Waterbury 37 E4 Connecticut, NE USA
Waterford 89 D6 S Ireland Waterloo 43 F4 Iowa, C USA Watersmeet 40 B2 Michigan, N USA Watertown 37 D3 New York, NE USA Watertown 43 D3 South Dakota N USA Waterville 89 A6 SW Ireland Waterville 37 G2 Maine, NE USA Watford 95 F3 E England, United Kingdom

Watford City 43 A2 North Dakota Watrous 44 E2 New Mexico, SW USA Watsa 76 D1 NE Dem. Rep. Congo Watts Bar Lake 39 E3 ⊠ Tennessee, S USA Wau 75 B4 S Sudan Waukegan 40 C5 Illinois, N USA Waukesha 40 C4 Wisconsin, N USA Wausau 40 B3 Wisconsin, N USA Waveney 95 H2 ♣ England, United Kingdom Waverly 43 F4 Iowa, C USA Wayre 84 C7 C Belgium Wawa 35 C5 Ontario, S Canada Wawa, Río 55 E3 😝 NE Nicaragua Wavcross 39 F6 Georgia, SE USA Wé 141 G6 E New Caledonia Weald, The 95 G4 lowlands SE England, United Kingdom Weam 141 A3 SW Papua New Guinea Wear 93 D2 & N England, United Kingdom Webster City 43 E4 Iowa, C USA Weddell Plain 142 B3 undersea feature SW Atlantic Ocean Weddell Sea 142 B3 sea SW Atlantic Ocean Weed 49 B5 California, W USA Weener 101 B3 NW Germany Weert 84 E6 SE Netherlands Weesp 84 D4 C Netherlands Wegorzewo 105 F2 NE Poland Weimar 101 C5 C Germany Weiser 47 B3 Idaho, NW USA Weissenburg in Bayern 101 C6 SE Germany Weiswampach 84 E8 N Luxembourg Wejherowo 105 D1 NW Poland Weldiya 75 E3 N Ethiopia Welkom 76 D6 C South Africa Welland 93 F5 A C England, United Kingdom
Wellesley Islands 137 F2 island group Oueensland, N Australia New Zealand

Wellingborough 95 F2 C England, United Kingdom Wellington 139 D5 ● North Island, Wellington 95 C4 SW England, United Kingdom Wellington 43 D7 Kansas, C USA Wellington 44 F2 Texas, SW USA
Wellington, Isla 65 A8 island S Chile
Wells 47 C5 Nevada, W USA Wellsford 139 D2 North Island Wells-next-the-Sea 95 G1 E England, United Kingdom
Wels 101 E7 N Austria

Welshpool 93 C5 E Wales, United Kingdom Wemmel 84 C6 C Belgium Wenatchee 49 C2 Washington, NW USA Wenchi 72 D5 W Ghana Wenquan 129 C4 C China Wenzhou 129 G5 SE China Werkendam 84 D5 S Netherlands Weser 101 B3 A NW Germany
Wessel Islands 137 E1 island group Northern Territory, N Australia West Antarctica 142 B5 physical region

Antarctica
West Bank 123 H6 disputed region SW Asia

West Bend 40 C4 Wisconsin, N USA West Bengal 127 F4 state NE India West Bromwich 93 D6 C England, United Kingdom

West Burra 91 A6 island NE Scotland

United Kingdom West Des Moines 43 E5 Iowa, C USA Westerland 101 B2 N Germany Western Australia 137 B3 ◆ state W Australia

Western Dvina 83 F6 🗗 W Europe Western Ghats 127 C5 ▲ SW India Western Sahara 70 A3 Disputed ♦ N Africa
Western Sayans 118 E5

S Russian Federation Western Scheldt 84 B5 inlet S North Sea West Falkland 65 B8 island W Falkland Islands

West Fargo 43 D2 North Dakota, N USA West Frisian Islands 84 D1 island group N Netherlands Westhope 43 B1 North Dakota, N USA

West Memphis 39 C3 Arkansas, C USA Weston-super-Mare 95 D4 SW England, United Kingdom West Palm Beach 39 G8 Florida,

SE USA Westport 89 B3 W Ireland

Westport 139 C5 South Island, New Zealand Westray 91 E1 island NE Scotland, United Kingdom

West Siberian Plain 118 D4 plain C Russian Federation

West Virginia 39 F2 ◆ state NE USA Wetar, Pulau 131 E8 island Kepulauan

Damar, E Indonesia

Wetherby 93 D4 N England United Kingdom Wetzlar 101 R5 W Germany Wevok 50 E1 Alaska, USA
Wewak 141 A1 NW Papua New Guinea Wexford 89 E6 SE Ireland

Weyburn 33 H7 Saskatchewan, S Canada Weymouth 95 D5 S England, United Kingdom Wezep 84 E3 E Netherlands

Whakatane 139 E3 North Island, New Zealand Whale Cove 33 H4 Nunavut, C Canada Whalsay 91 B6 island NE Scotland,

United Kingdom Whangarei 139 D2 North Island, New Zealand

Wharfe 93 D3 ♣ N England, United Kingdom Whataroa 139 B6 South Island,

Wheatland 139 Bo South Island,
New Zealand
Wheatland 47 F4 Wyoming, C USA
Wheeler Peak 47 C5 ▲ Nevada, W USA Wheeler Peak 44 D1 ▲ New Mexico SW USA
Wheeling 39 G1 West Virginia, NE USA

Whernside 93 C3 ▲ N England United Kingdom
Whitby 93 E3 N England,

United Kingdom

Whitchurch 93 C5 W England,
United Kingdom

Whitefish 47 C1 Montana, NW USA

Whitehaven 93 B3 NW England, United Kingdom

Whitehead 89 F2 E Northern Ireland,

United Kingdom
Whitehorse 33 E5 territory capital Yukon
Territory, W Canada
White Nile 75 C3 😝 SE Sudan

White River 43 F8 Arkansas

White River 47 E5 😂 Colorado/Utah,

White River 40 C7 😂 Indiana. N USA White River 43 B4 🗗 South Dakota, N USA

White Sea 111 B3 sea Arctic Ocean Whites Town 89 E3 NE Ireland
White Sulphur Springs 47 D2 Montana, NW USA

White Volta 72 D4 ♣ Burkina Faso/Ghana Whitewater Baldy 44 C3 ▲ New Mexico, SW USA

Whithorn 91 D7 S Scotland, United Kingdom Whitianga 139 D2 North Island,

New Zealand Whitley Bay 93 D2 NE England, United Kingdom Whitney, Mount 49 C7 ▲ California,

Whitstable 95 H4 SE England,

United Kingdom Whitsunday Group 137 H3 island group

Queensland, E Australia Whyalla 137 E5 South Australia Wichita 43 D7 Kansas, C USA Wichita Falls 44 G2 Texas, SW USA Wick 91 E2 N Scotland, United Kingdom Wickenburg 44 B2 Arizona, SW USA Wicklow 89 E5 E Ireland Wicklow Mountains 89 E5 ▲ E Ireland Widnes 93 C4 NW England,

United Kingdom Wieliczka 105 E5 S Poland Wieluń 105 D4 C Poland Wien see Vienna Wiener Neustadt 101 F7 E Austria

Wierden 84 F3 E Netherlands Wiesbaden 101 B5 W Germany Wigan 93 C4 NW England.

United Kingdom
Wigston 93 E6 C England,
United Kingdom
Wigton 93 C2 NW England, United Kingdom
Wigtown 91 D7 S Scotland,

United Kingdom

Wigtown Bay 91 D7 bay SW Scotland,
United Kingdom

Wijchen 84 E5 SE Netherlands Wijk bij Duurstede 84 D4 C Netherlands

Wilcannia 137 F5 New South Wales SE Australia Wilhelm, Mount 141 A2 ▲ C Papua

New Guinea
Wilhelmshaven 101 B3 NW Germany
Wilkes Barre 37 D5 Pennsylvania, NE USA

Wilkes Land 142 E5 physical region Antarctica Willard 44 D2 New Mexico, SW USA Willcox 44 C3 Arizona, SW USA Willebroek 84 C6 C Belgium

Willemstad 57 H7 O Curação C Netherlands Antilles
Williamsport 37 C5 Pennsylvania, NE USA

Williston 43 41 North Dakota N USA Willow Springs 43 F7 Missouri, C USA Wilmington 37 D5 Delaware, NE USA Wilmington 39 H4 North Caroli: SE USA

Wilmington 40 E7 Ohio, N USA Wilmslow 93 D4 W England,

United Kingdom
Wilrijk 84 C6 N Belgium
Wilton 37 F2 Maine, NE USA Winchester 95 E4 S England, United Kingdom Winchester 39 H1 Virginia, NE USA

Windermere 93 C3
NW England United Kingdom
Windhoek 76 B5 • C Namibi

Wind Mountain 44 D3 ▲ New Mexico. SW HSA Windorah 137 F4 Queensland,

C Australia Windsor 35 C6 Ontario, S Canada Windsor 95 F3 S England, United Kingdom Windsor 37 E4 Connecticut, NE USA

Windward Islands 57 K6 island group E West Indies
Windward Passage 57 E4 channel

Cuba/Haiti Winisk 35 C3 🗗 Ontario, S Canada

N USA Winnemucca 47 R5 Nevada W IISA Winnipeg 33 H7 province capital Manitoba, S Canada

Manitoba, S Canada
Winnipeg, Lake 33 H6 ⊗ Manitoba,
C Canada
Winona 43 F3 Minnesota, N USA
Winschoten 84 F2 NE Netherlands

Winsen 101 C3 N Germany Winslow 44 B2 Arizona, SW USA Winston Salem 39 G3 North Carolin SE USA

Winsum 84 D2 NE Netherlands Winterswijk 84 F4 E Netherlands Winterthur 101 B7 NE Switzerland Winton 137 F3 Queensland, E Australia Winton 139 B8 South Island, New Zealand Wisbech 95 G2 E England,

United Kingdom
Wisconsin 40 B3 ◆ state N USA
Wisconsin Dells 40 B4 Wisconsin, NUSA

Wisconsin Rapids 40 B4 Wiscon N USA Wisconsin River 40 R4 A Wisconsin

N USA Wisła see Vistula Wismar 101 C2 N Germany Witham 93 F5 & E England,

United Kingdom
Withernsea 93 F4 E England, United Kingdom
Witney 95 E3 S England, United Kingdom
Wittenberge 101 D3 N Germany Wittlich 101 A5 SW Germany

Wittstock 101 D3 NE Germany Witu Islands 141 C2 island group E Papua New Guinea
Władysławowo 105 D1 N Poland
Włocławek 105 E3 C Poland
Włodawa 105 G4 SE Poland

Wlotzkasbaken 76 B5 W Namibia Wodonga 137 G6 Victoria, SE Australia Wodzisław Śląski 105 D5 S Poland

Woking 95 F4 SE England, United Kingdom Wokingham 95 F4 S England,

United Kingdom Wolds, The 93 F5 hill range E England, United Kingdom Wolds, The 93 F4 hill range N England,

United Kingdom Wolf Point 47 F1 Montana, NW USA Wolf River 40 C3 St Wisconsin, N USA Wolfsberg 101 E8 SE Austria

Wolfsburg 101 C4 N Germany Wolgast 101 D2 NE Germany Wollaston Lake 33 H5 Saskatchewan, C Canada Wollongong 137 G6 New South Wales,

SE Australia Wolvega 84 E2 N Netherlands

Wolverhampton 93 D5 C England, United Kingdom Wonju 133 B5 N South Korea Wonsan 133 B5 SE North Korea Woodburn 49 B3 Oregon, NW USA Woodland 49 B6 California, W USA Woodlark Island 141 C3 island SE Papua New Guinea

Woodruff 40 B3 Wisconsin, N USA Woods, Lake of the 35 A4 ⊗ Canada/USA Woodville 139 D4 North Island

New Zealand

Woodward 43 C7 Oklahoma, C USA Wooler 93 D1 N England, United Kingdom

Wootton Bassett 95 E3 S England,

United Kingdom
Worcester 76 C7 SW South Africa
Worcester 93 D6 W England, United Kingdom

Worcester 37 F4 Massachusetts, NE USA Worcester 3714 Massachusetts, N Workington 93 B2 NW England, United Kingdom Worksop 93 E4 C England, United Kingdom Worland 47 E3 Wyoming, C USA

Worms 101 R6 SW Germany Worthing 95 F5 SE England, United Kingdom Worthington 43 D4 Minnesota, N USA Woudrichem 84 D5 S Netherlands Wragby 93 F4 E England, United Kingdom

Wrangel Island 118 H1 island

NE Russian Federation

Wrangel Plain 143 C3 undersea feature Arctic Ocean

Wrath, Cape 91 C2 headland N Scotland, United Kingdom United Kingdom Wrexham 93 C5 NE Wales, United Kingdom

Wrocław 105 C4 SW Poland

Września 105 D3 C Poland

Wuday 'ah 123 C6 S Saudi Arabia Wuhai 129 E3 N China Wuhan 129 F4 C China Wuhu 129 G4 E China Wukari 72 F5 E Nigeria
Wuliang Shan 129 D5 🚵 SW China
Wuppertal 101 A4 W Germany

Würzburg 101 C6 SW Germany Wuxi 129 G4 E China Wye 93 C7 St England/Wales, United Kingdom Wyndham 137 D2 Western Australia

Wyoming 40 D5 Michigan, N USA Wyoming 47 E3 ◆ state C USA Wyre 93 C4 A NW England. United Kingdom

Wyszków 105 F3 NE Poland

X

Xaafuun, Raas 75 G3 cape NE Somalia Xaçmaz 121 I1 N Azerbaijan Xai-Xai 76 E6 S Mozambique Xalapa 53 F5 SE Mexico Xankändi 121 I3 SW Azerbaijan Xánthi 107 F4 NE Greece Xàtiva 99 F4 E Spain Xiamen 129 G5 SE China Xi'an 129 F4 C China Xianggang see Hong Kong Xiangkhoang, Plateau de 131 B2 plateau N Laos Xiangtan 129 F5 S China Xiao Hinggan Ling 129 G1 ▲ NE China Xichang 129 E5 C China Xigazê 129 C4 W China Xi Jiang 131 D2 & S China Xi Jiang 131 D2 & S China Xilinhot 129 F2 N China Xingu, Rio 63 F5 & C Brazil Xingxingxia 129 D3 C China Xining 129 E4 C China Xinxiang 129 F4 C China Xinyang 129 F4 C China Xinzo de Limia 99 B2 NW Spain Xiva 125 D2 W Uzbekistan Xixón see Gijón Xuddur 75 E4 SW Somalia Xuwen 129 F6 S China Xuzhou 129 G4 E China



Ya'an 129 E5 C China

Yabelo 75 D4 C Ethiopia

Yablis 55 E3 NE Nicaragua
Yablonovyy Khrebet 118 G5
S Russian Federation Yabrai Shan 129 E3 A NE China Yafran 70 F2 NW Libya
Yahualica 53 E4 SW Mexico
Yakima 49 C2 Washington, NW USA
Yakima River 49 C2 SW Washington, NW USA Yakutat 50 E3 Alaska, USA Yakutsk 118 G4 NE Russian Federation Yalong Jiang 129 D4 A C China Yalova 120 B2 NW Turkey Yalta 109 F7 S Ukraine Valu 133 A4 A China/North Korea Yamagata 133 G4 C Japan Yamaguchi 133 D7 SW Japan Yamal, Poluostrov 118 D3 peninsula N Russian Federation Yambio 75 B4 S Sudan Yambol 107 F3 E Bulgaria

Yamdena, Pulau 131 G8 island
Kepulauan Tanimbar, E Indonesia
Yamoussoukro 72 C5 ● C Côte d'Ivoire Yamuna 127 E3 & N India Yana 118 G3 😂 NE Russian Federation Yanbu 'al Bahr 123 A4 W Saudi Arabia Yandina 141 E3 Russell Islands, C Solomon Islands Oceania Yangambi 76 D1 N Dem. Rep. Congo Yangiyo'l 125 F2 E Uzbekistan Yangon see Rangoon Yangtze 129 F4 😂 C China Yangzhou 129 G4 E China Yankton 43 D4 South Dakota, N USA

Yantai 129 G3 E China Yaoundé 72 F5 ● S Cameroon
Yapen, Pulau 131 H7 island E Indonesia
Yaqui, Río 53 C2 ♣ NW Mexico
Yaransk 111 C5 NW Russian Federation Yare 95 H2 & E England, United Kingdom

Yarega 111 D4 NW Russian Federation Yarmouth 35 F5 Nova Scotia, SE Canada Yaroslavl' 111 B5 W Russian Federation Yasawa Group 141 I5 island group NW Fiji

Yasvel'da 109 C3 😂 SW Belarus Yatsushiro 133 D8 SW Japan Yavari, Rio 63 C4 😝 Brazil/Peru Vaviza 55 I6 SE Panama Yazd 123 E3 C Iran Yazoo City 39 C5 Mississippi, S USA Yecheng 129 A3 NW China Yefremov 111 A6 W Russian Federation Yekaterinburg 118 C4 C Russian Federation

Yelets 111 A6 W Russian Federation Yell 91 B6 island NE Scotland, United Kingdom Yellowknife 33 G5 territory capital Northwest Territories, W Canada Yellow River 129 G3 🚓 C China Yellow Sea 129 G4 sea E Asia Vellowstone National Park 47 D3 national park Wyoming, NW USA
Yellowstone River 47 E2 & Montana/

Wyoming, NW USA Yell Sound 91 A6 strait N Scotland, United Kingdom
Yelwa 72 E4 W Nigeria Yemen 123 C6 ♦ republic SW Asia Yemva 111 D4 NW Russian Federation Yenakiyeve 109 G5 E Ukraine Yendi 72 D4 NE Ghana Yengisar 129 A3 NW China Yenierenköy 112 D6 NE Cyprus Yenisey 118 E4 😂 Mongolia/ Russian Federation

Yeovil 95 D4 SW England, United Kingdom Yeppoon 137 H4 Queensland, Anetralia Yerevan 121 H3 ● C Armenia Yeu, Île d' 97 B4 island NW France Yevlax 121 I2 C Azerbaijan

Yevpatoriya 109 F7 S Ukraine
Yeya 109 G5 St SW Russian Federation
Yichang 129 F4 C China Yigo 51 NE Guam Yıldızeli 121 E3 N Turkey Yinchuan 129 E3 N China Yining 129 B2 NW China Yogyakarta 131 C8 Java, C Indonesia Yokohama 133 G6 S Japan Yokote 133 G4 C Japan Yola 72 G4 E Nigeria Yona 51 E Guam Yonago 133 E6 SW Japan Yong'an 129 G5 SE China Yonghung 133 B5 E North Korea Yonkers 37 E5 New York, NE USA Vonne 97 D3 & C.France York 93 E3 N England, United Kingdom York 43 D5 Nebraska, C USA York 37 C5 Pennsylvania, NE USA
York Cape 137 G1 headland Queensland,
NE Australia
Yorkshire Dales 93 D3 physical region
N England Usited Very

N England, United Kingdom Yorkton 33 H7 Saskatchewan, S Canada Yoro 55 C3 C Honduras Yoshkar-Ola 111 C5 W Russian Federation Youghal 89 D6 S Ireland Youngstown 40 F6 Ohio, N USA Vreka 49 B5 California W USA Ythan 91 F3 A NE Scotland.

United Kingdom
Yucatan Channel 53 I3 channel

Cuba/Mexico
Yucatan Peninsula 53 H4 peninsula
Guatemala/Mexico Yueyang 129 G5 S China Yukon River 50 D2 ♣ Canada/USA Yukon Territory 33 E4 � territory NW Canada Yulin 129 F6 S China

Yuma 44 A3 Arizona, SW USA Yushu 129 D4 C China Yuty 65 C4 S Paraguay Yuzhno-Sakhalinsk 118 I5 SE Russian Federation

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Zaanstad 84 D3 C Netherlands Zabaykal'sk 118 G5 S Russian Federation Zabid 123 B7 W Yemen Ząbkowice Śląskie 105 C5 SW Poland Zábřeh 105 C5 E Czech Republic Zacapa 55 B3 E Guatemala Zacatecas 53 E4 C Mexico Zacatepec 53 F5 S Mexico Zadar 107 B2 SW Croatia Zadetkvi Kvun 131 A4 island Mergui Archipelago, S Burma (Myanmar)

Zafra 99 C4 W Spain

Zagreb 107 B1 ● N Croatia Zagros Mountains 123 D3 ▲ W Iran Zahedan 123 F3 SE Iran Záhony 105 F6 NE Hungary Zákynthos 107 D6 island W Greece Zalaegerszeg 105 G2 W Hungary Zalău 109 B6 NW Romania Zalim 123 B5 W Saudi Arabia Zambei 76 C4 W Zambia Zambei 76 C4 W Zambia Zambei 76 E4 ♣7 S Africa Zambia 76 D4 ♦ republic S Africa Zambonga 131 F5 S Philippines Zambrów 105 F3 E Poland Zamora 99 C2 NW Spain Zamora de Hidalgo 53 E5 SW Mexico Zamość 105 G5 E Poland Zanda 129 A4 W China Zanesville 40 F6 Ohio, N USA Zanjan 123 D1 NW Iran

Zanzibar 75 E6 island E Tanzania Zaozhuang 129 G4 E China
Zapadna Morava 107 D2 😂 C Serbia Zapadnava Dvina 111 A5 Zapadnaya Dvina 111 A5
W Russian Federation
Zapala 65 A6 W Argentina
Zapolyarnyy 111 B2
NW Russian Federation
Zaporizhzhya 109 F5 SE Ukraine
Zaqatala 121 II NW Azerbaijan Zara 121 E3 C Turkey Zarafshon 125 E2 N Uzbekistan Zaragoza 99 F2 NE Spain Zaranj 125 D6 SW Afghanistan Zarasai 83 F7 E Lithuania Zárate 65 C5 E Argentina Zarautz 99 E1 N Spain Zarghun Shahr 125 F5 SE Afghanistan Zaria 72 F4 C Nigeria Żary 105 B4 W Poland Zawiercie 105 E5 S Poland Zawilah 70 F4 C Libya Zaysan, Ozero 118 D6 ⊗ E Kazakhstan Zduńska Wola 105 E4 C Poland Zealand 83 B7 island E Denmark Zeebrugge 84 B5 NW Belgium Zeewolde 84 D3 C Netherlands Zeidskoye Vodokhranilishche 125 D4

☐ E Turkmenistan

Zeist 84 D4 C Netherlands Zele 84 C6 NW Belgium Zelenoborskiv 111 B2 NW Russian Federation

Zelenograd 111 B5 W Russian Federation Zelenogradsk 83 D7 W Russian Federation Zelzate 84 B6 NW Belgium Zemst 84 C6 C Belgium Zemun 107 D2 N Serbia Zenica 107 C2 Federacija Bosna I Hercegovina, C Bosnia and Herzegovina Zeravshan 125 F3

Zeravsnan 125 F3

♣ Tajikistan/Uzbekistan

Zermatt 101 B8 SW Switzerland

Zevenaar 84 E4 SE Netherlands Zevenhaar 64 E4 SE Netherlands
Zevenbergen 84 C5 S Netherlands
Zeya Reservoir 118 G4 ⊠
SE Russian Federation Zgierz 105 E4 C Poland Zgorzelec 105 B4 SW Poland Zhanaozen 118 B5 W Kazakhstan Zhangjiakou 129 F3 E China Zhangzhou 129 G5 SE China Zhanjiang 129 F6 S China Zhaoqing 129 F6 S China Zheleznogorsk 111 A6
W Russian Federation
Zhengzhou 129 F4 C China

Zhezkazgan 118 C5 C Kazakhstan Zhlobin 109 D3 SE Belarus Zhodzina 109 D2 C Belarus Zhongshan 142 D4 Chinese research station Antarctica Zhovkva 109 B4 NW Ukraine Zhovti Vody 109 E5 E Ukraine Zhytomyr 109 D4 NW Ukraine Zibo 129 G3 E China Zielona Góra 105 C4 W Poland Zierikzee 84 C5 SW Netherlands

Zierikzee 84 US SW Netherlands Zigong 129 E5 C China Ziguinchor 72 A4 SW Senegal Žilina 105 D6 N Slovakia Zimbabwe 76 E5 ♦ republic S Africa Zimovniki 111 B7 SW Russian Federation Zinder 72 F3 S Niger Zittau 101 E5 E Germany Zlín 105 D6 E Czech Republic Złotów 105 D2 C Poland Żnin 105 D3 C Poland Znojmo 105 C6 SE Czech Republic Zoetermeer 84 C4 W Netherlands Zomba 76 E4 S Malawi Zongo 76 C1 N Dem. Rep. Congo zuldak 121 C2 NW Turkey Zonhoven 84 D6 NE Belgium Zory 105 D5 S Poland Zouar 72 G2 N Chad Zouérat 72 B1 N Mauritania Zrenjanin 107 D1 N Serbia Zug 101 B8 C Switzerland Zugspitze 101 C7 ▲ S Germany Zuid-Beveland 84 B5 island SW Netherlands

Zuider Zee see Iisselmeer Zuidhorn 84 E2 NE Netherlands Zuidlaren 84 F2 NE Netherlands Zula 75 D2 E Eritrea Zundert 84 C5 S Netherlands Zunyi 129 E5 S China Zürich 101 B7 N Switzerland Zurich, Lake 101 B8 ⊗ NE Switzerland Zürichsee see Zurich, Lake Zutphen 84 E4 E Netherlands Zuwarah 70 F2 NW Libya Zuvevka 111 D5 NW Russian Federation Zvenyhorodka 109 E5 C Ukraine Zvishavane 76 D5 S Zimbabwe Zvolen 105 E6 C Slovakia Zwedru 72 C5 E Liberia Zwettl 101 E6 NE Austria Zwevegem 84 B7 W Belgium Zwickau 101 D5 E Germany Zwolle 84 E3 E Netherlands Zyryanovsk 118 D5 E Kazakhstan

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◆ Administrative region

O Dependent territory capital

Mountain range

▲ Mountain 🛣 Volcano 🚙 River 🐵 Lake 🖾 Reservoir